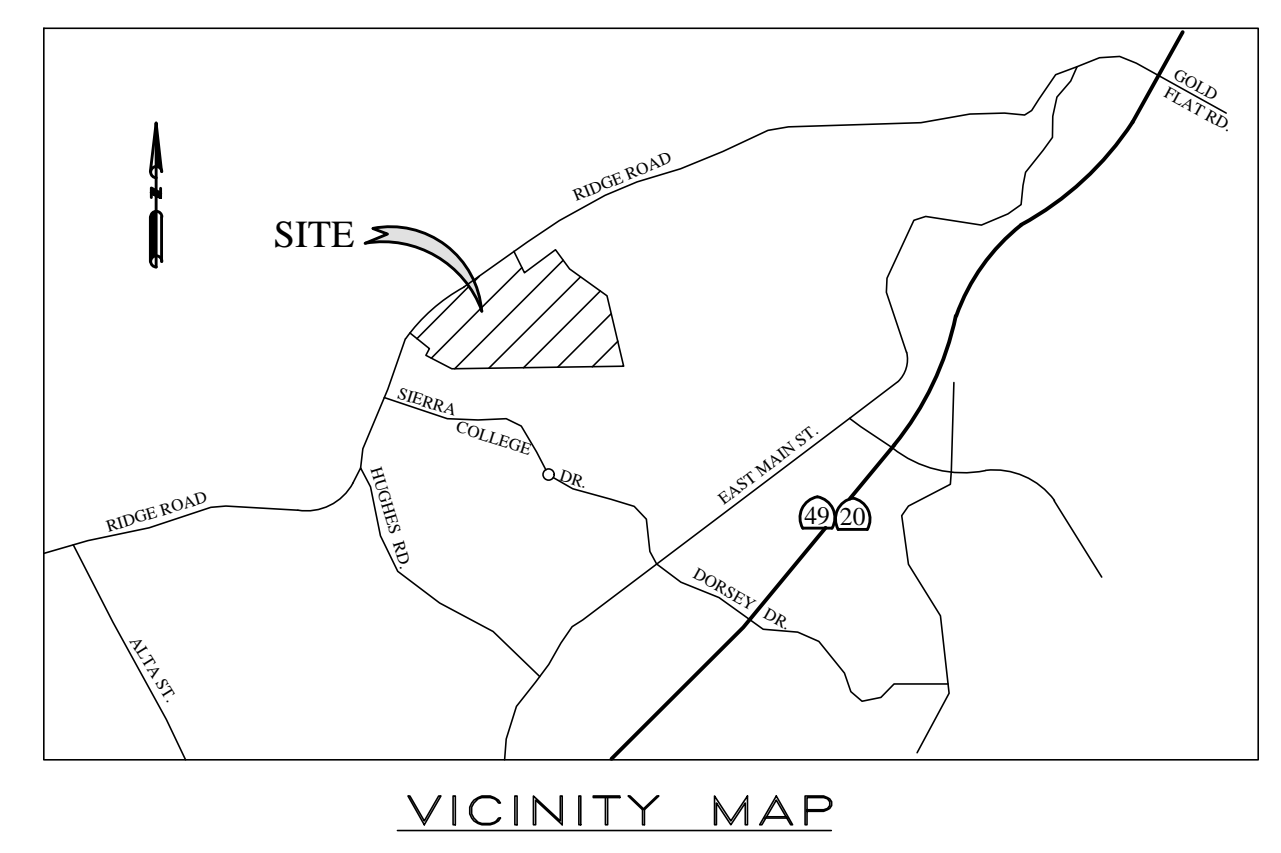


FIRE PROTECTION : NEVADA COUNTY CONSOLIDATED FIRE DISTRICT
 TELEPHONE : AT&T
 POWER : PACIFIC GAS AND ELECTRIC
 SEWAGE DISPOSAL : CITY OF GRASS VALLEY
 WATER : NEVADA IRRIGATION DISTRICT (N.I.D.)



ASSESSOR'S PARCEL:
 35-250-01
 OWNER / SITE ADDRESS:
 NEVADA JOINT UNION HIGH SCHOOL DISTRICT
 NEVADA UNION HIGH SCHOOL
 11761 RIDGE ROAD
 GRASS VALLEY, CA 95945



Revisions
 ADDENDUM 3 11.9.18

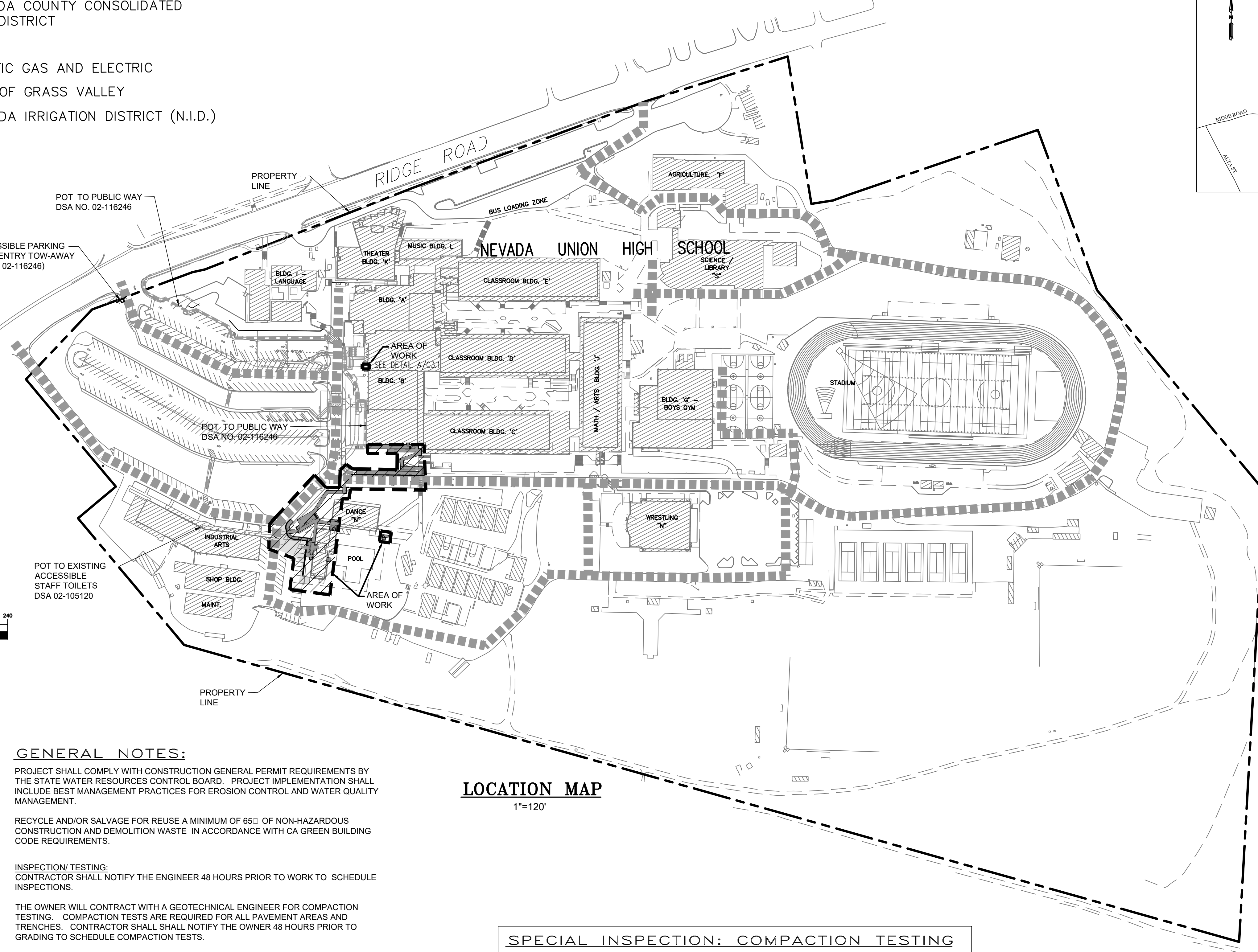
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 (930) 559-1326
 SLS

POOL BUILDING RENOVATION
 for
 NJUHSD
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

CIVIL PLAN SHEET INDEX

- C0.1 CIVIL PLAN COVER SHEET
- C0.2 CONSTRUCTION NOTES
- C1.1 SITEPLAN
- C1.2 DEMO PLAN
- C2.1 GRADING AND DRAINAGE
- C2.2 DETAILED GRADING PLAN
- C2.3 DETAILED GRADING PLAN
- C3.1 UTILITY PLAN
- C4.1 DRAINAGE DETAILS
- C4.2 WATER DETAILS
- C4.3 SEWER DETAILS
- C4.4 RAMP DETAILS
- C4.5 GENERAL DETAILS
- C4.6 GENERAL DETAILS



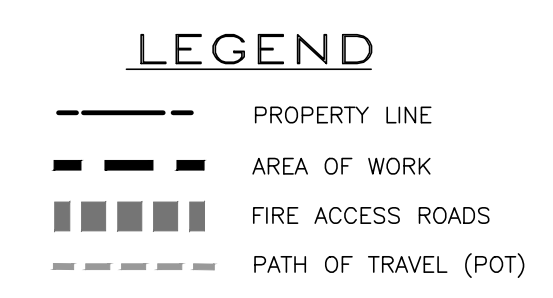
SPECIAL INSPECTION: COMPACTION TESTING

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT

THE PATH OF TRAVEL (P.O.T.) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."

7/12/2018
 DATE ENGINEER SIGNATURE
 Bryan McAuliffe



ABBREVIATIONS

- AB AGGREGATE BASE
- AC ASPHALT CONCRETE
- C, CONC CONCRETE EXISTING
- CL CENTERLINE
- (E), EX EXISTING / CONTRACTOR TO VERIFY
- EL ELEVATION
- EP EDGE OF PAVEMENT
- FF FINISH FLOOR
- FG FINISH GRADE
- FH FIRE HYDRANT
- FL FLOW LINE
- GB GRADE BREAK
- HDPE HIGH DENSITY POLYETHYLENE
- IE, INV INVERT
- MH MANHOLE
- NTS NOT TO SCALE
- OH OVERHEAD
- OHE OVERHEAD ELECTRIC
- S SEWER
- SD STORM DRAIN
- SWR SEWER
- SS SANITARY SEWER
- TC TOP CURB
- TG TOP OF GRATE, DROP INLET
- TW TOP WALL
- TYP TYPICAL
- WL, W WATERLINE

GENERAL NOTES:

PROJECT SHALL COMPLY WITH CONSTRUCTION GENERAL PERMIT REQUIREMENTS BY THE STATE WATER RESOURCES CONTROL BOARD. PROJECT IMPLEMENTATION SHALL INCLUDE BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND WATER QUALITY MANAGEMENT.
 RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65% OF NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH CA GREEN BUILDING CODE REQUIREMENTS.
 INSPECTION/ TESTING:
 CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS PRIOR TO WORK TO SCHEDULE INSPECTIONS.
 THE OWNER WILL CONTRACT WITH A GEOTECHNICAL ENGINEER FOR COMPACTION TESTING. COMPACTION TESTS ARE REQUIRED FOR ALL PAVEMENT AREAS AND TRENCHES. CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO GRADING TO SCHEDULE COMPACTION TESTS.

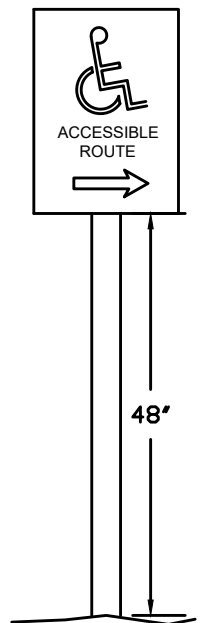
PATH OF TRAVEL NOTE

"PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL (11B-303 & 11B-403.4). P.O.T. IS A MINIMUM OF 48" WIDE (11B-403.5.1EX3) SLIP RESISTANT SURFACE WITH 5% MAX. SLOPE AND 1:48 MAX. CROSS SLOPE (11B-403.3). P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN (11B-307.4) AND PROTRUDING OBJECTS (11B-307.5) GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". THERE SHALL BE NO DROP-OFF OVER 4" AT THE EDGE OF WALK OR LANDING UNLESS IDENTIFIED BY A GUARD, A HANDRAIL, OR A WARNING CURB AT LEAST 6" IN HEIGHT ABOVE THE WALK (11B-303.5). ARCHITECT AND CONTRACTOR SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED." AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE BOUNDARY OF THE SITE SHALL BE PROVIDED FROM PUBLIC WAY, ACCESSIBLE PARKING, AND ACCESSIBLE RESTROOMS, TO THE ACCESSIBLE BUILDING ENTRANCE(S) THEY SERVE AND ALL PORTIONS OF THE ACCESSIBLE OR ADAPTABLE BUILDING.

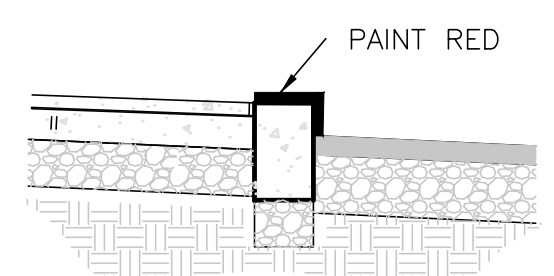
ACCESSIBLE ROUTE TO PUBLIC WAY IS SHOWN ON THIS SHEET.
 REFERENCE SHEET C1.1 FOR P.O.T. IMPROVEMENTS

SIGNAGE NOTES

- S1 INSTALL PATH OF TRAVEL DIRECTIONAL SIGNAGE - ONE SIGN WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY AND DIRECTIONAL ARROW. SIGN SHALL BE MOUNTED ON A METAL SIGN POST AT 48" FROM GROUND TO BOTTOM OF LOWER SIGN. SIGN SHALL NOT BE LOCATED IN POT. REFER TO PLAN FOR DIRECTION OF ARROW. (DETAIL 5)
- S2 PLACE ACCESSIBLE STALL PARKING STRIPING (DETAIL A90A/C4.5)
- S3 PAINT RED CURBING (DETAIL 4)
- S4 INSTALL ACCESSIBLE PARKING SIGN (DETAIL A90A/C4.5)
BOTTOM OF SIGN SHALL BE 80" MIN. ABOVE GRADE AT PATH OF TRAVEL
- S5 PROVIDE INTERSECTION SIGNAGE AND STRIPING (DETAIL 1)
- S6 INSTALL "UNAUTHORIZED VEHICLE... WILL BE TOWED AWAY..." SIGN TYPE R100B (DETAIL A90A/C4.5) MOUNTED AT BACK OF STOP SIGN

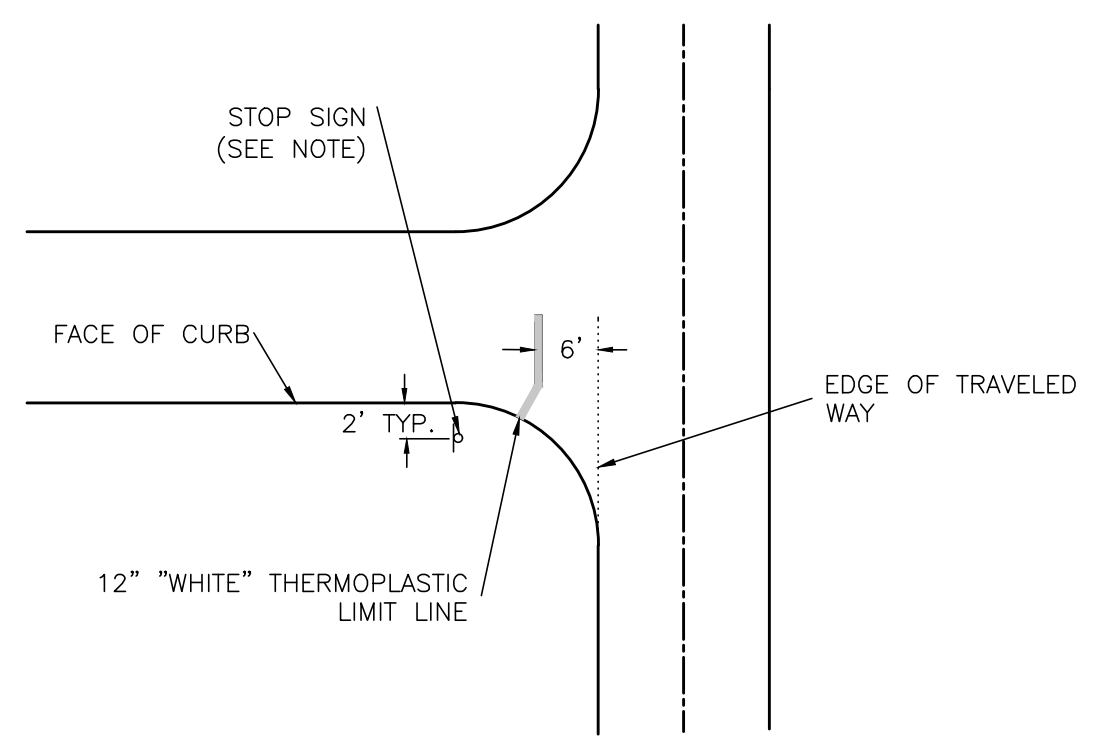


**PATH OF TRAVEL DIRECTIONAL SIGNAGE
DETAIL 5**



**RED CURBING
DETAIL 4**

NOTE:
BOTTOM OF SIGN SHALL BE 84" MIN. ABOVE
SIDEWALK.



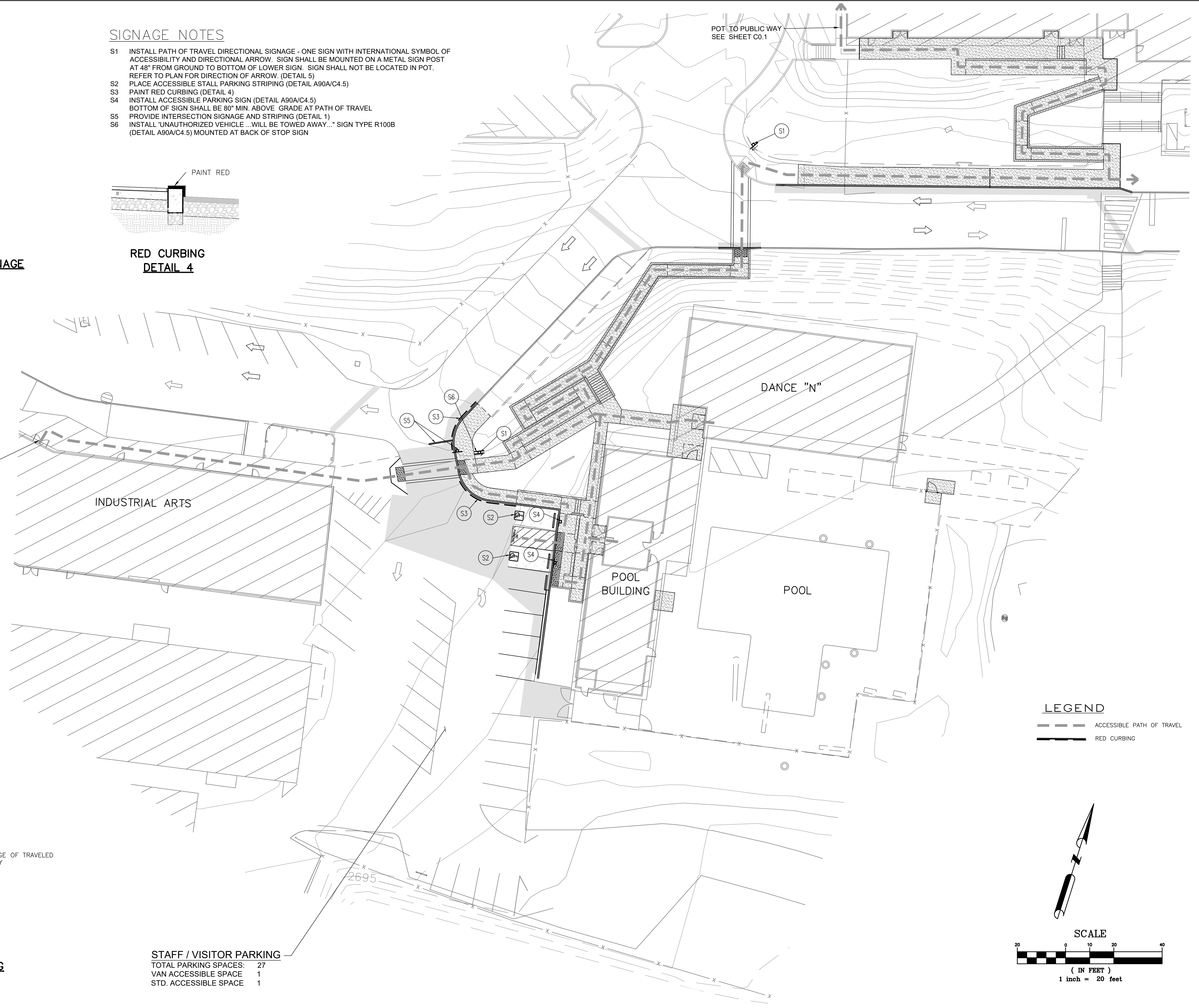
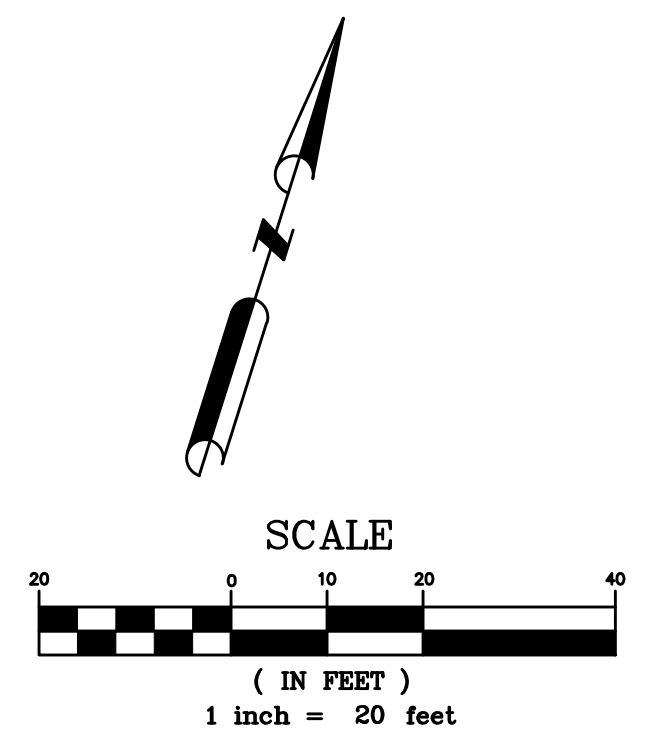
**INTERSECTION SIGNAGE AND STRIPING
DETAIL 1**

STAFF / VISITOR PARKING
TOTAL PARKING SPACES: 27
VAN ACCESSIBLE SPACE: 1
STD. ACCESSIBLE SPACE: 1

POT TO PUBLIC WAY
SEE SHEET C0.1

POT TO EXISTING
ACCESSIBLE
STAFF TOILETS
DSA 02-105120

LEGEND
--- ACCESSIBLE PATH OF TRAVEL
--- RED CURBING



Revisions

ADDENDUM 3 11.9.18

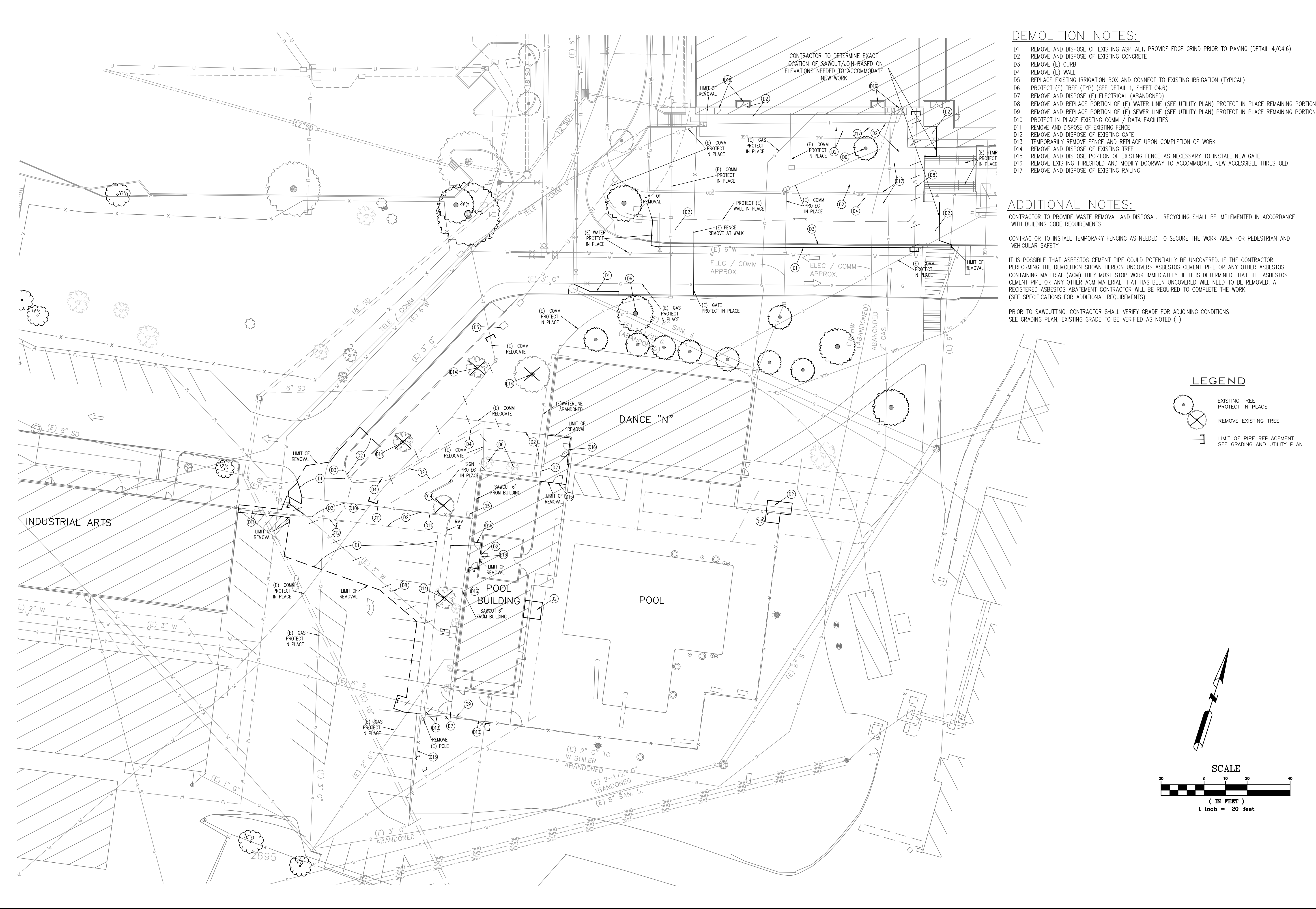
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SITEPLAN
C1.1



DEMOLITION NOTES:

- D1 REMOVE AND DISPOSE OF EXISTING ASPHALT. PROVIDE EDGE GRIND PRIOR TO PAVING (DETAIL 4/C4.6)
- D2 REMOVE AND DISPOSE OF EXISTING CONCRETE
- D3 REMOVE (E) CURB
- D4 REMOVE (E) WALL
- D5 REPLACE EXISTING IRRIGATION BOX AND CONNECT TO EXISTING IRRIGATION (TYPICAL)
- D6 PROTECT (E) TREE (TYP) (SEE DETAIL 1, SHEET C4.6)
- D7 REMOVE AND DISPOSE (E) ELECTRICAL (ABANDONED)
- D8 REMOVE AND REPLACE PORTION OF (E) WATER LINE (SEE UTILITY PLAN) PROTECT IN PLACE REMAINING PORTION
- D9 REMOVE AND REPLACE PORTION OF (E) SEWER LINE (SEE UTILITY PLAN) PROTECT IN PLACE REMAINING PORTION
- D10 PROTECT IN PLACE EXISTING COMM / DATA FACILITIES
- D11 REMOVE AND DISPOSE OF EXISTING FENCE
- D12 REMOVE AND DISPOSE OF EXISTING GATE
- D13 TEMPORARILY REMOVE FENCE AND REPLACE UPON COMPLETION OF WORK
- D14 REMOVE AND DISPOSE OF EXISTING TREE
- D15 REMOVE AND DISPOSE PORTION OF EXISTING FENCE AS NECESSARY TO INSTALL NEW GATE
- D16 REMOVE EXISTING THRESHOLD AND MODIFY DOORWAY TO ACCOMMODATE NEW ACCESSIBLE THRESHOLD
- D17 REMOVE AND DISPOSE OF EXISTING RAILING

ADDITIONAL NOTES:

CONTRACTOR TO PROVIDE WASTE REMOVAL AND DISPOSAL. RECYCLING SHALL BE IMPLEMENTED IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS.

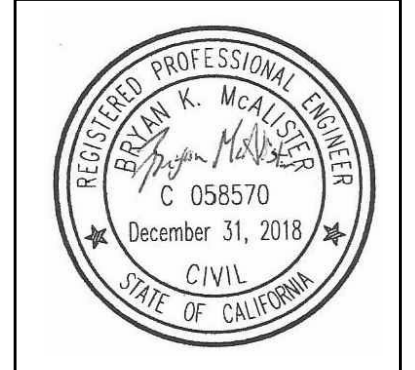
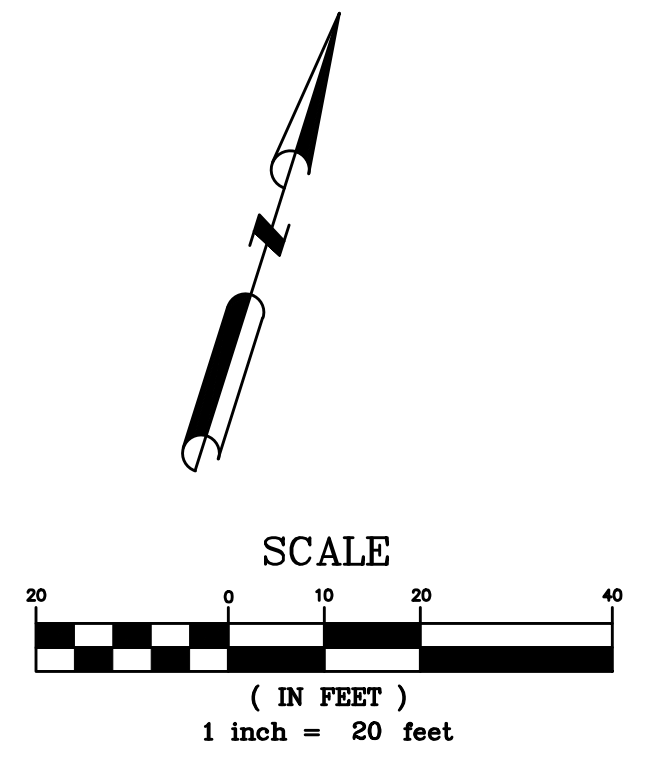
CONTRACTOR TO INSTALL TEMPORARY FENCING AS NEEDED TO SECURE THE WORK AREA FOR PEDESTRIAN AND VEHICULAR SAFETY.

IT IS POSSIBLE THAT ASBESTOS CEMENT PIPE COULD POTENTIALLY BE UNCOVERED, IF THE CONTRACTOR PERFORMING THE DEMOLITION SHOWN HEREON UNCOVERS ASBESTOS CEMENT PIPE OR ANY OTHER ASBESTOS CONTAINING MATERIAL (ACM) THEY MUST STOP WORK IMMEDIATELY. IF IT IS DETERMINED THAT THE ASBESTOS CEMENT PIPE OR ANY OTHER ACM MATERIAL THAT HAS BEEN UNCOVERED WILL NEED TO BE REMOVED, A REGISTERED ASBESTOS ABATEMENT CONTRACTOR WILL BE REQUIRED TO COMPLETE THE WORK. (SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

PRIOR TO SAWCUTTING, CONTRACTOR SHALL VERIFY GRADE FOR ADJOINING CONDITIONS SEE GRADING PLAN, EXISTING GRADE TO BE VERIFIED AS NOTED ()

LEGEND

- EXISTING TREE PROTECT IN PLACE
- REMOVE EXISTING TREE
- LIMIT OF PIPE REPLACEMENT SEE GRADING AND UTILITY PLAN



Revisions
ADDENDUM 3 11.9.18

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NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

date: 7/12/18
scale: 17-429

DEMO PLAN
C1.2

WATER POLLUTION CONTROL NOTES

1. MAINTAIN ALL CONSTRUCTION EQUIPMENT TO PREVENT OIL OR OTHER FLUID LEAKS. KEEP STOCKPILED SPILL CLEANUP MATERIALS READILY ACCESSIBLE. SEGREGATE AND CONTAIN ALL WASTES AND POTENTIAL POLLUTANTS.
2. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MANAGEMENT OF EROSION CONTROL MEASURES INCLUDING FIBER ROLLS AND ANY OTHER MEASURES DEEMED NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE. CONTRACTOR IS ADVISED TO REFERENCE CASQA STORMWATER QUALITY HANDBOOKS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMPs) MANUAL, STATE OF CALIFORNIA.
3. CONTRACTOR TO MINIMIZE EXPOSURE TIME OF DISTURBED SOIL AREAS BY PHASING CONSTRUCTION ACTIVITIES AND STABILIZING THE SOILS PROMPTLY.
4. CONCRETE WASHOUT AREAS SHALL BE LOCATED AT AN APPROVED OFFSITE LOCATION OR IN ACCORDANCE WITH SWPPP BMP WM-8.
5. CONTRACTOR TO DILIGENTLY MAINTAIN THE TEMPORARY CONSTRUCTION ACCESS TO PREVENT SOIL TRACKING INTO ROADWAY.
6. CONTRACTOR TO WINTERIZE SITE PRIOR TO OCTOBER 15th. PERMANENT BMP'S SUCH AS REVEGETATION, LANDSCAPING, ETC. SHALL BE IMPLEMENTED IN ALL COMPLETED AREAS.
7. ALL WORK PERFORMED BETWEEN OCTOBER 15TH AND MAY 1ST OF EACH YEAR SHALL BE CONDUCTED IN SUCH A MANNER THAT THE PROJECT CAN BE WINTERIZED WITHIN 48 HOURS AND PRIOR TO RAIN EVENTS. WINTERIZED MEANS IMPLEMENTING EROSION AND/OR SEDIMENT CONTROLS THAT WILL PREVENT THE DISCHARGE OF EARTHEN MATERIALS FROM THE SITE AND THE CONTROLS WILL REMAIN EFFECTIVE THROUGHOUT THE RAIN SEASON WITHOUT REQUIRING MAINTENANCE. IN GENERAL, THIS REQUIRES STABILIZING BARE DISTURBED SOILS WITH MULCH, EROSION PROTECTION BLANKETS, OR OTHER SUITABLE MATERIALS, AND INSTALLING PERIMETER SEDIMENT CONTROLS SUCH AS FIBER ROLLS OR OTHER SIMILAR MATERIALS THAT WILL REMAIN EFFECTIVE DURING RAIN EVENTS.
8. EROSION CONTROL AND SEDIMENT BARRIERS SHALL BE CHECKED PRIOR TO ANTICIPATED STORM EVENTS, DURING/ AFTER STORM EVENTS AND WEEKLY BY THE CONTRACTOR.
9. STOCKPILES NOT ACTIVELY USED SHALL BE COVERED AND BERMED.
10. ALL DISTURBED AREAS NOT COVERED WITH LANDSCAPE / HARDSCAPE AS SHOWN ON THESE PLANS SHALL BE COVERED WITH SOIL STABILIZATION MATERIAL AS SPECIFIED BY THE DISTRICT. APPROVED SOIL STABILIZATION CONSISTS OF WOOD CHIPS, PINE NEEDLES OR NATIVE SEED / MULCH.

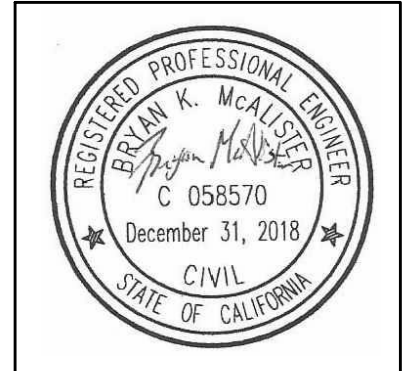
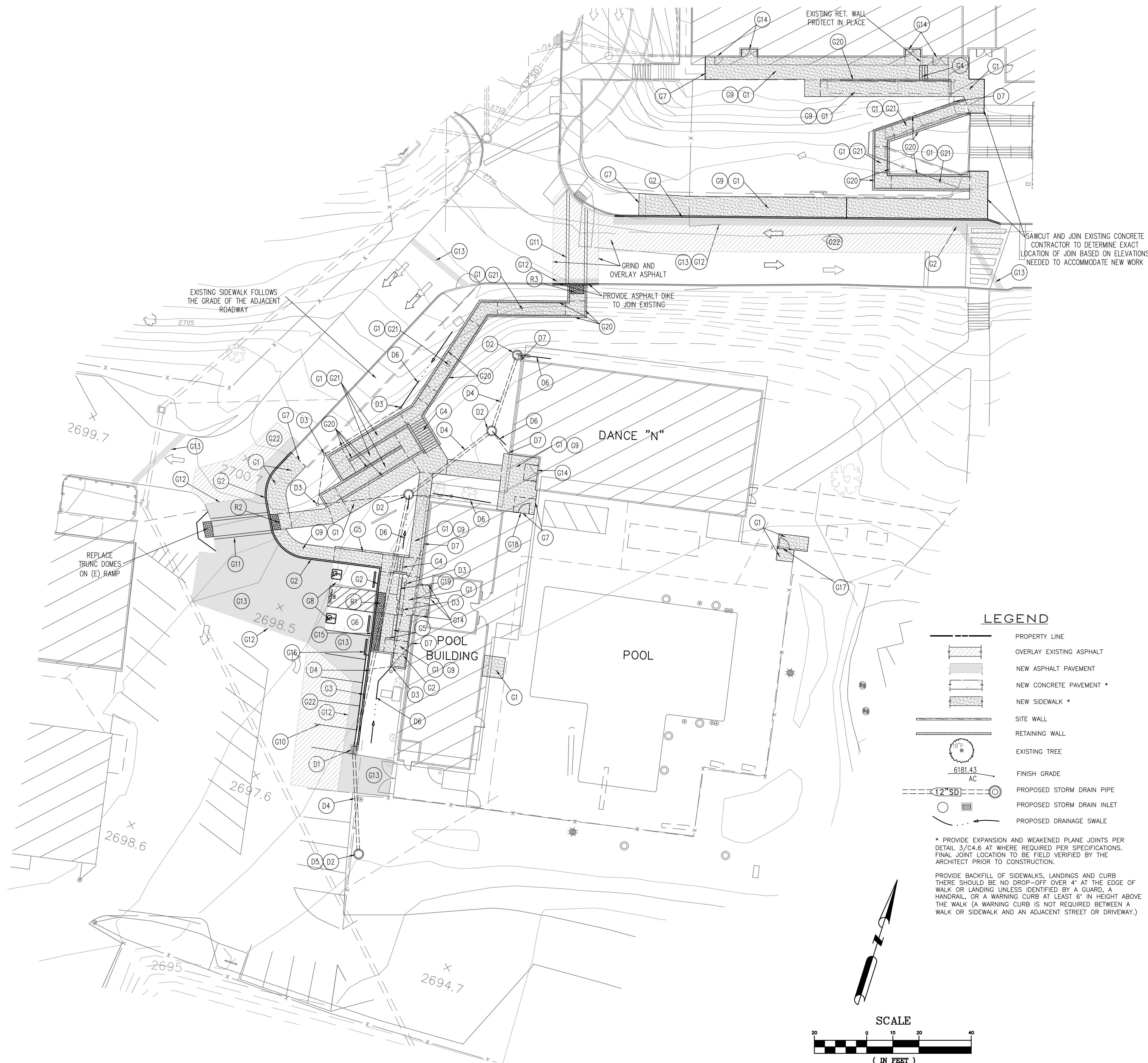
GRADING NOTES:

- G1 CONSTRUCT CONCRETE SIDEWALK (DETAIL 5/C4.6)
 - G2 CONSTRUCT TYPE A1-6" CURB (DETAIL 8/C4.6)
 - G3 CONSTRUCT TYPE A2-6" CURB AND GUTTER (DETAIL 9/C4.6)
 - G4 CONSTRUCT STEPS WITH RAILING (DETAILS 5/C4.5 AND ARCH DETAILS)
 - G5 PROVIDE 5'X5' MIN. LANDING AT TOP/BOTTOM OF STAIR, 2% MAX. SLOPE
 - G6 CONSTRUCT CONCRETE SITE WALL (DETAILS 11/C4.5 AND ARCH DETAILS)
 - G7 (TEXTURE AND FINISH PER ARCHITECTS SPECIFICATIONS)
 - G8 CONNECT BACK OF WALL DRAINAGE TO STORM DRAIN PIPING OR NEAREST INLET
 - G9 PROVIDE NEW CONCRETE PAVEMENT SECTION 6" PCC OVER 6" AB WHERE SHOWN (DETAIL 7/C4.6)
 - G10 SAWCUT AND JOIN EXISTING CONCRETE, DRILL AND DOWEL
 - G11 CONSTRUCT ACCESSIBLE PARKING WITH STRIPING AND SIGNAGE (DETAIL A90A/C4.5)
 - G12 SIDEWALK TO CONFORM TO REQUIREMENTS FOR ADA PATH, 2% MAX. CROSS SLOPE AND 5% MAX. LONGITUDINAL SLOPE
 - G13 INSTALL 4" WHITE PARKING LOT STRIPING PAINT
 - G14 PLACE 8" CROSSWALK STRIPING (THERMOPLASTIC)
 - G15 JOIN EXISTING ASPHALT AT SAWCUT LINE AND PROVIDE EDGE GRINDING (TYPICAL DETAIL 4/C4.6)
 - G16 PROVIDE NEW PAVEMENT SECTION 3" AC OVER 8" AB WHERE SHOWN (DETAIL 6/C4.6)
 - G17 REPLACE THRESHOLD WITH ADA COMPLIANT THRESHOLD AND MODIFY DOOR TO ACCOMMODATE (REFER TO ARCHITECTS SPECIFICATIONS)
 - G18 CONSTRUCT 0" FLAT CURB (DETAIL 2/C4.6)
 - G19 PROVIDE CURB STOPS IN THREE LOCATIONS (DETAIL A90A/C4.5)
 - G20 PROVIDE NEW GATE WITH ELECTRIC LOCK (DETAIL 10/C4.6) (SEE ELECTRICAL PLAN).
 - G21 MODIFY EXISTING GATE TO ADD ELECTRIC LOCK AND TO COMPLY WITH DETAIL 10/C4.6 FOR ALL REQUIREMENTS AS AN ACCESSIBLE GATE, (SEE ELECTRICAL PLAN).
 - G22 CONSTRUCT 2.5' TALL, VINYL COATED METAL CHAINLINK FENCE (DETAIL 11/C4.5)
 - G23 CONSTRUCT CONCRETE RETAINING WALL PER STRUCTURAL PLAN AND DETAIL 4/C4.5 (TEXTURE AND FINISH PER ARCHITECTS SPECIFICATIONS)
 - G24 CONNECT BACK OF WALL DRAINAGE TO STORM DRAIN PIPING OR NEAREST INLET
 - G25 CONSTRUCT ADA RAMP WITH RAILING (SEE ARCHITECTURAL PLAN A1.4 AND A5.0 FOR DETAILS)
 - G26 PROVIDE 5'X5' MIN. LANDING AT TOP AND 5'X6' MIN. LANDING AT BOTTOM, 2% MAX. SLOPE
 - G27 GRIND 1" AND OVERLAY ASPHALT TO CONFORM TO EXISTING
-
- R1 CONSTRUCT CURB RAMP WITH DETECTABLE WARNING (DETAIL 11B-406-8C/C4.4)
 - R2 PARALLEL CURB RAMP WITH NO GUTTER ADJOINING A PARKING ACCESS AISLE
 - R3 CONSTRUCT CURB RAMP WITH DETECTABLE WARNING (DETAIL 11B-406-8/C4.4)
 - R4 PARALLEL CURB RAMP WITH NO GUTTER
 - R5 CONSTRUCT CURB RAMP WITH DETECTABLE WARNING (DETAIL 11B-406-6/C4.4)
 - R6 PERPENDICULAR CURB RAMP WITH NO GUTTER
- DETECTABLE WARNING SHALL BE EITHER YELLOW AND APPROXIMATE FS 33538 OF FED STD 595C OR IT SHALL PROVIDE A 70% MIN. VISUAL CONTRAST W/ ADJACENT WALKING SURFACES PER 11B-705.1.1.3.2. (11B-705.1.1.3)

DRAINAGE NOTES:

- D1 CONSTRUCT TYPE G0 STORM DRAIN CURB OPENING INLET (DETAIL G0/C4.1)
- D2 CONSTRUCT TYPE GCP STORM DRAIN GRATE INLET (DETAIL D75B/C4.1)
- D3 INSTALL 8" SQUARE AREA DRAIN (DETAIL 3/C4.1) WITH 6" AREA DRAIN PIPE, SLOPE=0.010 MIN. USE PEDESTRIAN ADA COMPLIANT GRATES IN CONCRETE AREAS
- D4 CONNECT AREA DRAIN PIPE TO NEAREST STORM DRAIN INLET
- D5 INSTALL 12" HDPE STORM DRAIN, SLOPE=0.010 MIN. (DETAIL 1/C4.1)
- D6 CONNECT TO EXISTING STORM DRAIN PIPE, POT HOLE TO VERIFY
- D7 INSTALL V-DITCH (DETAIL 2/C4.1) (ROCK LINE V-DITCH IF SLOPE EXCEEDS 5%)
- D8 CONNECT ROOF DRAIN TO STORM DRAIN OR AREA DRAIN

NOTE: REFER TO SHEETS C2.2 AND C2.3 FOR GRADING DETAILS, DIMENSIONS AND PATH OF TRAVEL FROM ACCESSIBLE PARKING AREAS



Revisions

ADDENDUM 3 11.9.18

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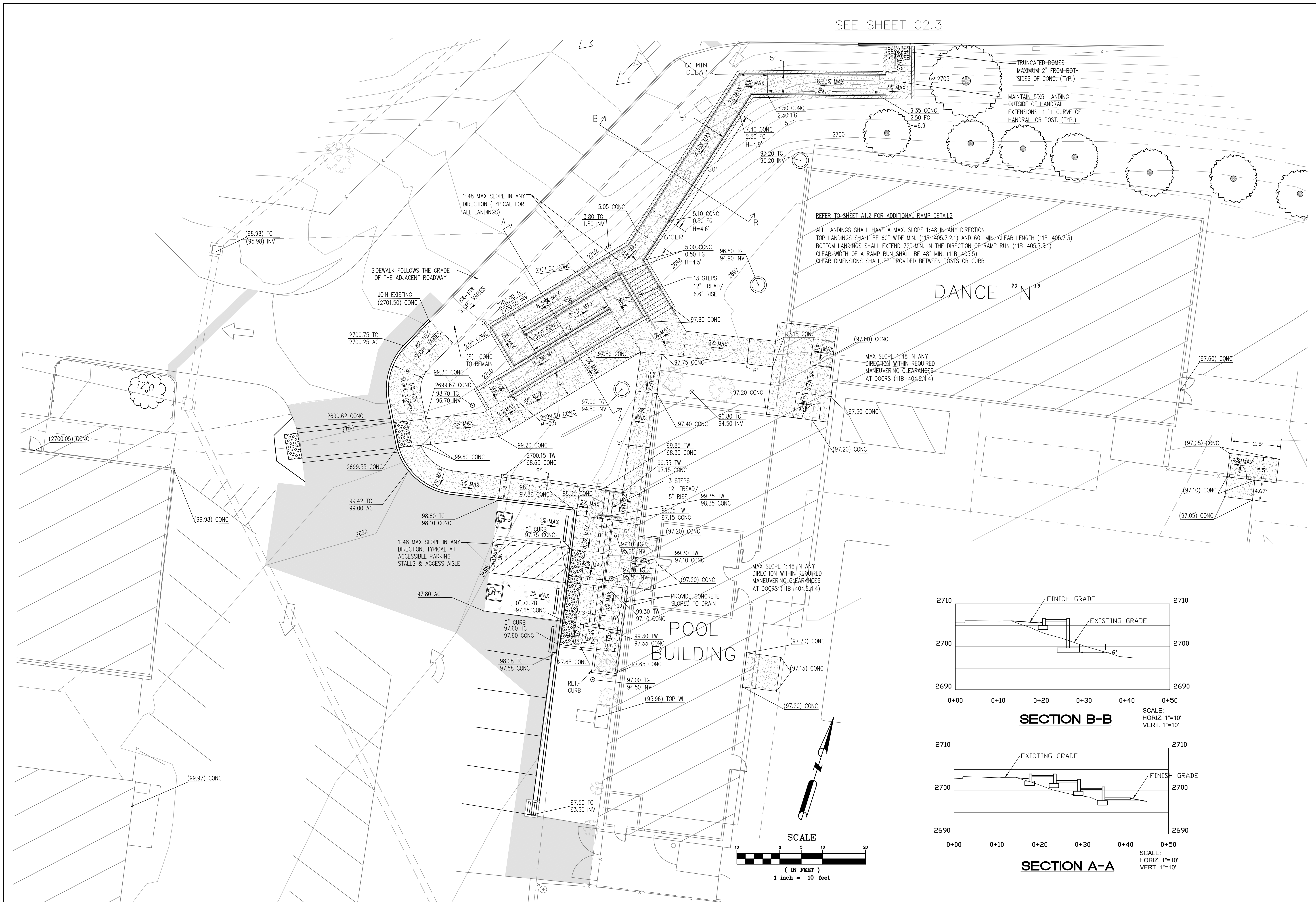
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for
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Date	7/12/18
Scale	17-429

GRADING AND DRAINAGE
C2.1

15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

L
K
J
I
H
G
F
E
D
C
B
A



SEE SHEET C2.3

TRUNCATED DOMES
MAXIMUM 2" FROM BOTH
SIDES OF CONC. (TYP.)

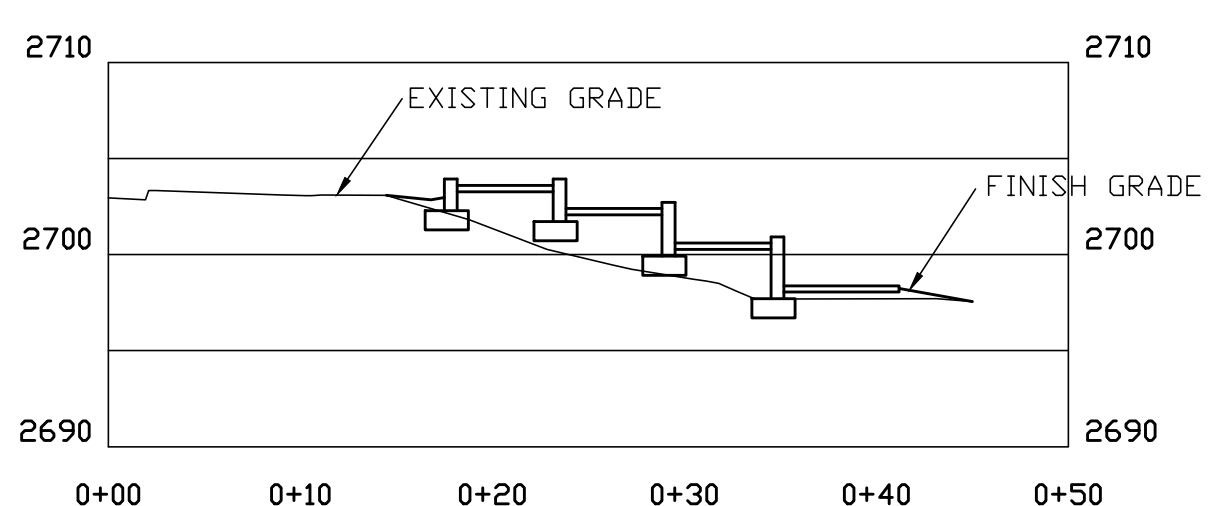
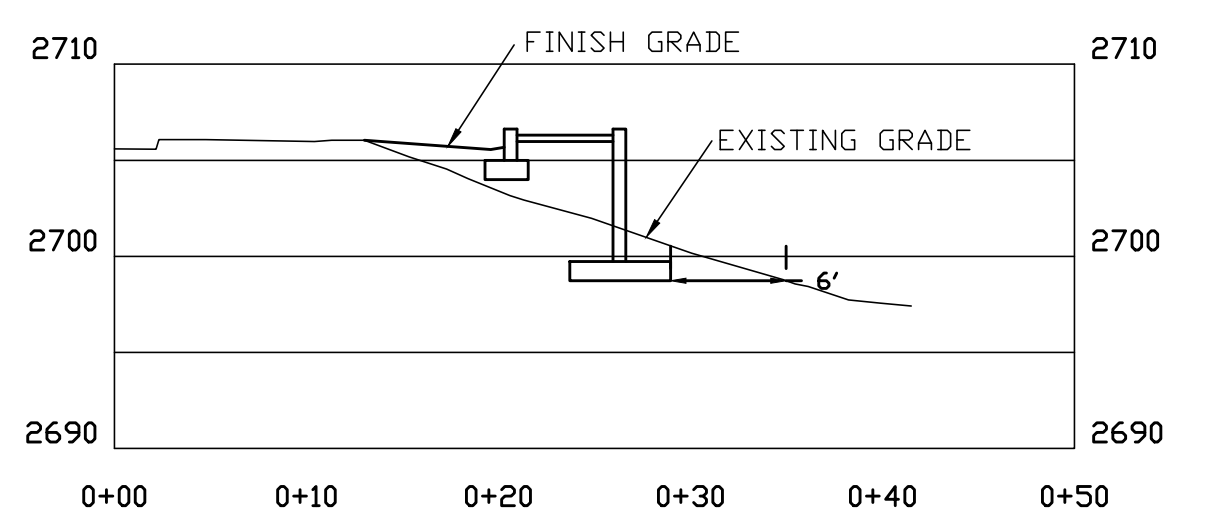
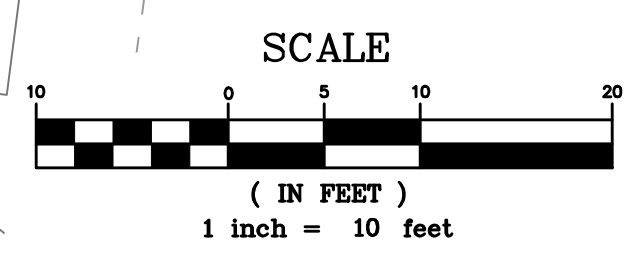
MAINTAIN 5'X5' LANDING
OUTSIDE OF HANDRAIL
EXTENSIONS: 1' + CURVE OF
HANDRAIL OR POST. (TYP.)

REFER TO SHEET A1.2 FOR ADDITIONAL RAMP DETAILS

ALL LANDINGS SHALL HAVE A MAX. SLOPE 1:48 IN ANY DIRECTION
TOP LANDINGS SHALL BE 60" WIDE MIN. (11B-405.7.2.1) AND 60" MIN. CLEAR LENGTH (11B-405.7.3)
BOTTOM LANDINGS SHALL EXTEND 72" MIN. IN THE DIRECTION OF RAMP RUN (11B-405.7.3.1)
CLEAR WIDTH OF A RAMP RUN SHALL BE 48" MIN. (11B-405.5)
CLEAR DIMENSIONS SHALL BE PROVIDED BETWEEN POSTS OR CURB

DANCE "N"

POOL BUILDING



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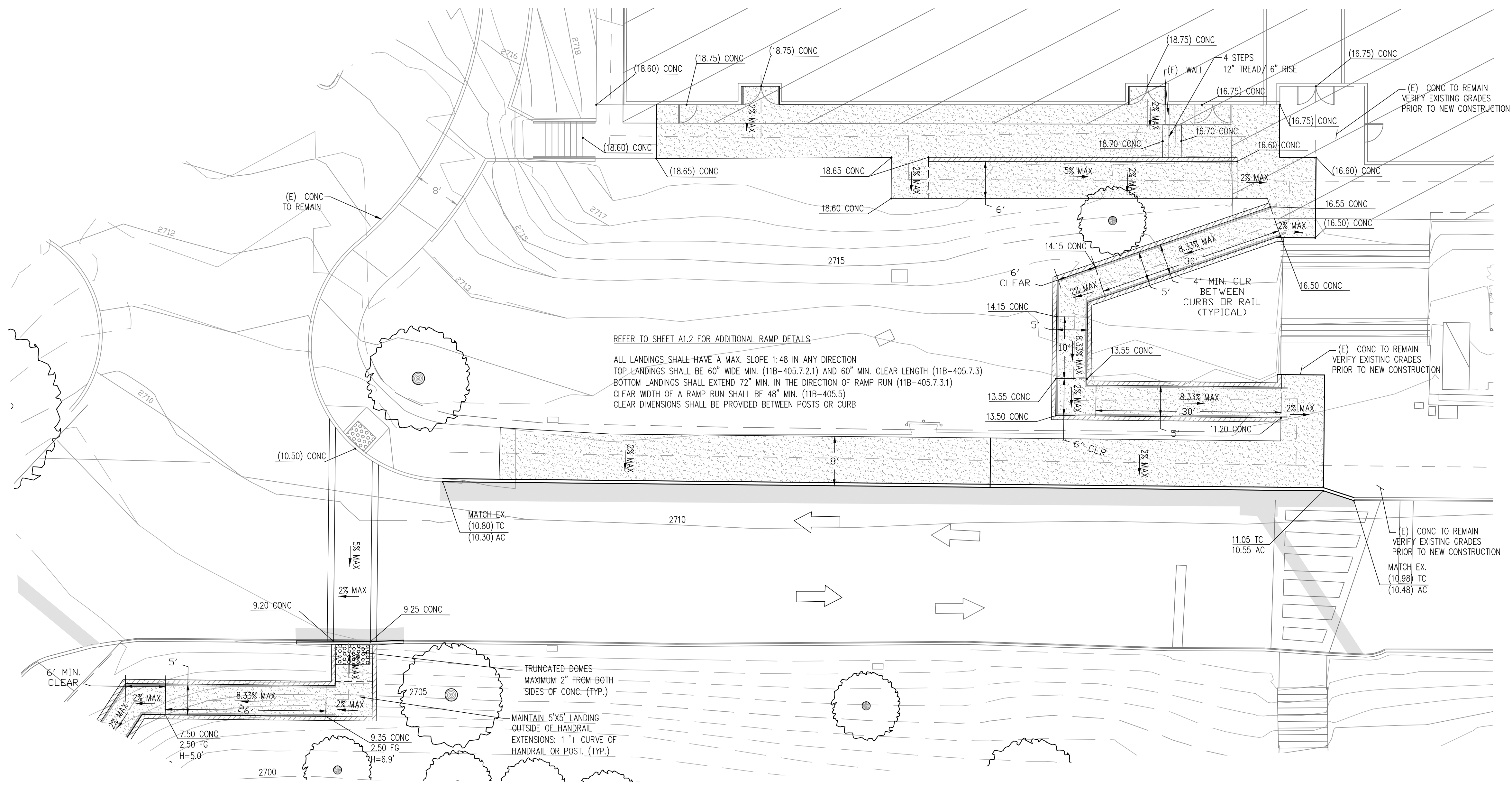
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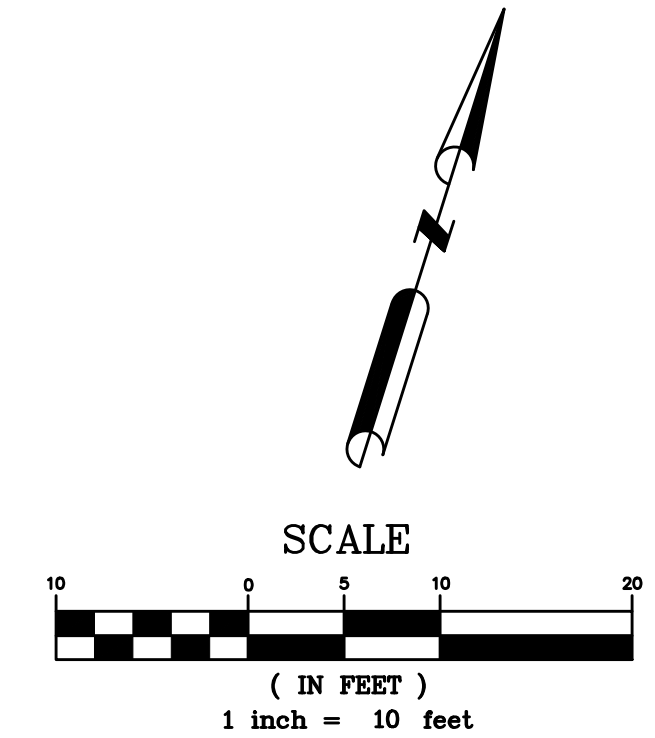
DATE: 7/12/18
SCALE: 17-429

DETAILED GRADING PLAN
C2.2

15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



SEE SHEET C2.2



Revisions	
Δ	ADDENDUM 3 11.9.18

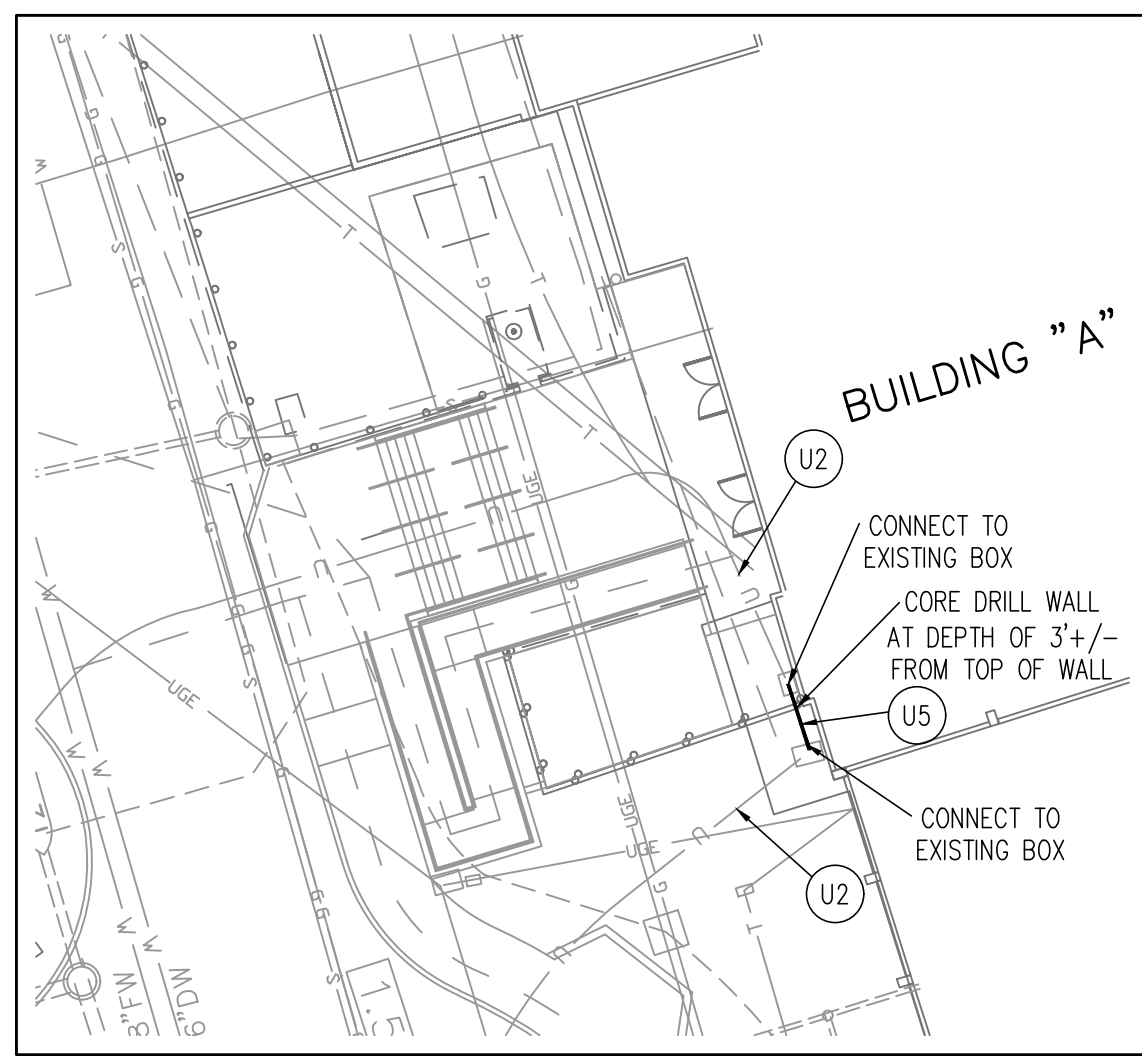
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SIERRA LAND SOLUTIONS, INC.
11003 BANDOLIER WAY
NEVADA CITY, CA 95959
(530) 559-1326

POOL BUILDING RENOVATION
for
NJUHSD
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

date	7/12/18
scale	17-429

DETAILED GRADING PLAN
C2.3



DETAIL A

SEE C0.1 FOR LOCATION OF IMPROVEMENTS SHOWN ON DETAIL A



LEGEND

---	PROPERTY LINE	---	NEW GAS LINE
— G — G —	EXISTING GAS	— W — W —	NEW WATER LINE
— V — V —	EXISTING WATER	— S — S —	NEW SEWER LINE
— S — S —	EXISTING SEWER	○	NEW SEWER MANHOLE
— T — T —	EXISTING TELE/COMM	---	NEW STORM DRAIN
— E — E —	EXISTING ELEC	— U —	NEW UTILITY TRENCH
			IT, ELEC OR FUTURE USE (SEE ELECTRICAL PLAN)

GENERAL NOTES:

1. ALL PIPING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE CALIFORNIA PLUMBING CODE AND LOCAL UTILITY COMPANY HAVING JURISDICTION.
2. ALL PRIVATE WATERLINE TO BE PLACED WITH 12" MIN. CLEARANCE FROM ADJACENT PARALLEL ELECTRIC, TELEPHONE AND OR GAS UTILITIES. FULL LENGTHS OF WATER PIPES SHALL BE CENTERED OVER INTERSECTIONS WITH STORM DRAIN AND SEWER LINES. ALL WATERLINE SHALL CONFORM TO DEPARTMENT OF HEALTH SERVICES REQUIREMENTS (SEE DETAIL SS-5) FOR SEPARATION BETWEEN WATER AND SEWER.
3. ALL UTILITY BOXES TO BE H20 TRAFFIC RATED.
4. UPON COMPLETION OF GRADING AND PAVING, RAISE AND ADJUST IRON TO 1/2" BELOW FINISH SURFACE FOR PAVED SURFACES AND 2" ABOVE GRADE FOR UNPAVED SURFACES. THIS INCLUDES ADJUSTMENT OF ALL EXISTING OR NEW VALVES (DETAIL NID SD4/C4.2); VAULT FRAME AND LIDS; CLEANOUTS (DETAIL SS-4/C4.3); AND MANHOLE FRAME AND COVER TO GRADE. DRAINAGE INLET GRATES SHALL BE AT GRADE OR 1/2" BELOW FINISH SURFACE.

WATER NOTES:

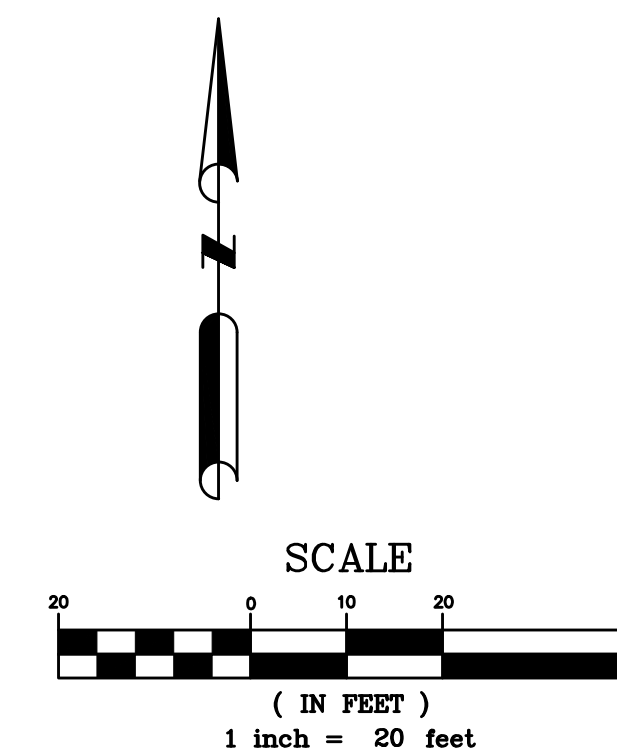
- W1 (E) HYDRANT – PROTECT IN PLACE
- W2 (E) WATER MAIN (PROTECT IN PLACE)
- W3 CONNECT TO EXISTING DOMESTIC WATER LINE WITH FITTINGS AS REQUIRED (POTHOLE TO VERIFY TYPE AND SIZE)
- W4 INSTALL 3" CL150 C900 WATERLINE (DOMESTIC) (DETAILS NID SD1, SD2 AND SD3/C4.2)
- W5 REPAIR AND REPLACE TO WORKING ORDER LANDSCAPE IRRIGATION THAT IS IN CONFLICT WITH NEW WORK (TYPICAL)
- W6 PROVIDE 6" PVC SLEEVE FOR IRRIGATION CROSSING
- W7 INSTALL 3" WATER VALVE (DETAIL NID SD4/C4.2)

UTILITY NOTES:

- U1 (E) GAS – (POTHOLE TO VERIFY LOCATION) PROTECT IN PLACE
- U2 EXISTING COMM/DATA/ELEC (POTHOLE TO VERIFY LOCATION) – PROTECT IN PLACE
- U3 PROVIDE 2" CONDUIT FOR ELECTRIC LOCK AT GATE (SEE ELECTRICAL PLAN)
- U4 PROVIDE ELECTRICAL SERVICE TO VENDING MACHINE (SEE ELECTRICAL PLAN)
- U5 INSTALL SECONDARY UTILITY TRENCH FOR DATA/IT, ELECTRIC, SITE LIGHTING OR FUTURE USE (SEE ELECTRICAL PLAN)
- U6 INSTALL PULL BOX FOR DATA/IT, ELEC OR FUTURE USE (SEE ELECTRICAL PLAN)
- U7 CONNECT CONDUIT TO EXISTING VAULT
- U8 PROVIDE 2-2" EMPTY CONDUIT FOR FUTURE USE FOR DATA/IT

SEWER NOTES:

- S1 INSTALL 6" PVC SDR35 SEWER LINE (DETAIL 1/C4.1)
- S2 CONNECT TO EXISTING SEWER LINE WITH FITTINGS AS REQUIRED (POTHOLE TO VERIFY TYPE AND SIZE)
- S3 PROVIDE LATERAL WYE FITTING AND TWO WAY CLEANOUT (DETAILS SS4 AND 1/C4.3)
- S4 (E) SEWER – PROTECT IN PLACE



Revisions
ADDENDUM 3 11.9.18

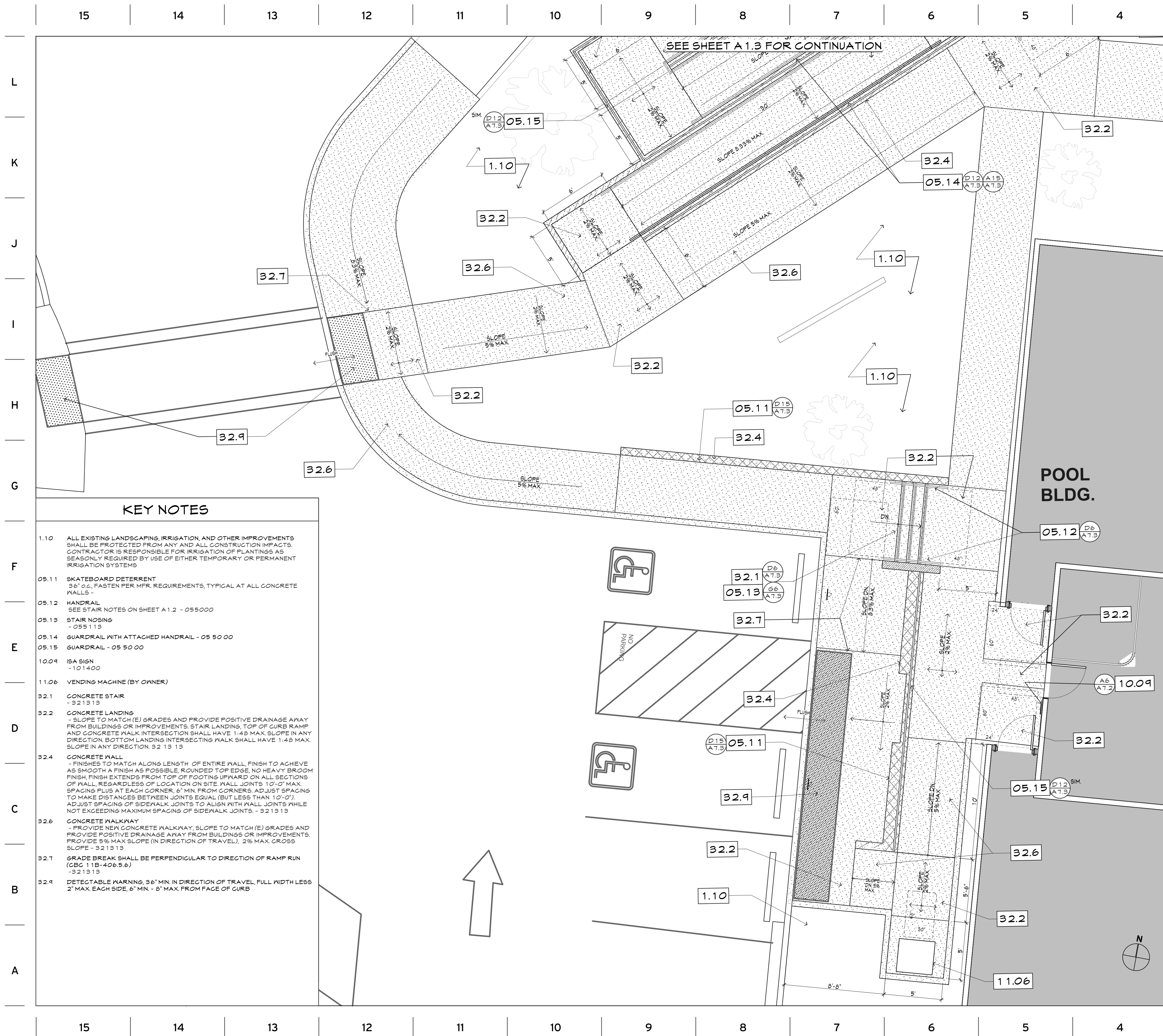
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NJUHSD
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Date: 7/12/18
Scale: 17-429

UTILITY PLAN
C3.1



SEE SHEET A 1.3 FOR CONTINUATION

STAIR NOTES

- CGC 11B-504.2 TREADS AND RISERS. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. RISERS SHALL BE 4 INCHES (102 MM) HIGH MINIMUM AND TREADS SHALL BE 11 INCHES (279 MM) DEEP MINIMUM.
- 11B-504.4 TREAD SURFACE. STAIR TREADS SHALL COMPLY WITH SECTION 11B-502. CHANGES IN LEVEL ARE NOT PERMITTED. EXCEPTION: TREADS SHALL BE PERMITTED TO HAVE A SLOPE NOT STEEPER THAN 1:4.8.
- 11B-504.4.1 CONTRASTING STRIPE. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. THE STRIPE SHALL BE A MINIMUM OF 2 INCHES (51 MM) WIDE TO A MAXIMUM OF 4 INCHES (102 MM) WIDE PLACED PARALLEL TO, AND NOT MORE THAN 1 INCH (25 MM) FROM, THE NOSE OF THE STEP OR UPPER APPROACH. THE STRIPE SHALL EXTEND THE FULL WIDTH OF THE STEP OR UPPER APPROACH AND SHALL BE OF MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR. A PAINTED STRIPE SHALL BE ACCEPTABLE. GROOVES SHALL NOT BE USED TO SATISFY THIS REQUIREMENT.
- 11B-504.5 NOSINGS. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH (12.7 MM) MAXIMUM. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 90 DEGREES MAXIMUM FROM VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL EXTEND 1 1/4 INCHES (32 MM) MAXIMUM OVER THE TREAD BELOW. EXCEPTION: IN EXISTING BUILDINGS THERE IS NO REQUIREMENT TO RETROACTIVELY ALTER EXISTING NOSING PROJECTIONS OF 1 1/2 INCHES (38 MM) WHICH WERE CONSTRUCTED IN COMPLIANCE WITH THE BUILDING CODE IN EFFECT AT THE TIME OF ORIGINAL CONSTRUCTION.
- 11B-504.6 HANDRAILS. STAIRS SHALL HAVE HANDRAILS COMPLYING WITH SECTION 11B-505.
- 11B-504.7 NET CONDITIONS. STAIR TREADS AND LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.
- 11B-505.1 GENERAL HANDRAILS. HANDRAILS PROVIDED ALONG WALKING SURFACES COMPLYING WITH SECTION 11B-403, REQUIRED AT RAMP SURFACES COMPLYING WITH SECTION 11B-405, AND REQUIRED AT STAIRS COMPLYING WITH SECTION 11B-504 SHALL COMPLY WITH SECTION 11B-505.
- 11B-505.2 HANDRAILS WHERE REQUIRED. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMP SURFACES. EXCEPTIONS:
1. CURB RAMP DO NOT REQUIRE HANDRAILS.
2. AT DOOR LANDINGS, HANDRAILS ARE NOT REQUIRED WHEN THE RAMP RUN IS LESS THAN 6 INCHES (152 MM) IN RISE OR 72 INCHES (1829 MM) IN LENGTH.
- 11B-505.2.1 ORIENTATION. THE ORIENTATION OF AT LEAST ONE HANDRAIL SHALL BE IN THE DIRECTION OF THE STAIR RUN, PERPENDICULAR TO THE DIRECTION OF THE STAIR NOSING, AND SHALL NOT REDUCE THE MINIMUM REQUIRED WIDTH OF THE STAIR.
- 11B-505.3 CONTINUITY. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS AND RAMP SURFACES SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS.
- 11B-505.4 HEIGHT. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES (864 MM) MINIMUM AND 38 INCHES (965 MM) MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.
- 11B-505.5 CLEARANCE. CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 1 1/2 INCHES (38 MM) MINIMUM. HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS 3 INCHES (76 MM) MAXIMUM DEEP AND 18 INCHES (457 MM) MINIMUM CLEAR ABOVE THE TOP OF THE HANDRAIL.
- 11B-505.6 GRIPPING SURFACE. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH WHERE PROVIDED. HORIZONTAL PROJECTIONS SHALL OCCUR 1 1/2 INCHES (38 MM) MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE. EXCEPTIONS:
1. WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH SLOPES NOT STEEPER THAN 1:20, THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL BE PERMITTED TO BE OBSTRUCTED ALONG THEIR ENTIRE LENGTH WHERE THEY ARE INTEGRAL TO CRASH RAILS OR BUMPER GUARDS.
2. THE DISTANCE BETWEEN HORIZONTAL PROJECTIONS AND THE BOTTOM OF THE GRIPPING SURFACE SHALL BE PERMITTED TO BE REDUCED BY 1/8 INCH (3.2 MM) FOR EACH 1/2 INCH (12.7 MM) OF ADDITIONAL HANDRAIL PERIMETER DIMENSION THAT EXCEEDS 4 INCHES (102 MM).
- 11B-505.7.1 CIRCULAR CROSS SECTION. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4 INCHES (32 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM.
- 11B-505.8 SURFACES. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
- 11B-505.9 FITTINGS. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
- 11B-505.10 HANDRAIL EXTENSIONS. HANDRAIL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS IN ACCORDANCE WITH SECTION 11B-505.10. EXCEPTIONS:
1. EXTENSIONS SHALL NOT BE REQUIRED FOR CONTINUOUS HANDRAILS AT THE INSIDE TURN OF SWITCHBACK OR DOGLEG STAIRS AND RAMP SURFACES.
2. IN ASSEMBLY AREAS, EXTENSIONS SHALL NOT BE REQUIRED FOR RAMP HANDRAILS IN AISLES SERVING SEATING WHERE THE HANDRAILS ARE DISCONTINUOUS TO PROVIDE ACCESS TO SEATING AND TO PERMIT CROSSOVERS WITHIN AISLES.
3. IN ALTERATIONS, WHERE THE EXTENSION OF THE HANDRAIL IN THE DIRECTION OF STAIR FLIGHT OR RAMP RUN WOULD CREATE A HAZARD, THE EXTENSION OF THE HANDRAIL MAY BE TURNED 90 DEGREES FROM THE DIRECTION OF STAIR FLIGHT OR RAMP RUN.
- 11B-505.10.1 TOP AND BOTTOM EXTENSION AT RAMP SURFACES. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.
- 11B-505.10.2 TOP EXTENSION AT STAIRS. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
- 11B-505.10.3 BOTTOM EXTENSION AT STAIRS. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. THE HORIZONTAL EXTENSION OF A HANDRAIL SHALL BE 12 INCHES (305 MM) LONG MINIMUM AND A HEIGHT EQUAL TO THAT OF THE SLOPING PORTION OF THE HANDRAIL, AS MEASURED ABOVE THE STAIR NOSING. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

KEY NOTES

- 1.10 ALL EXISTING LANDSCAPING, IRRIGATION, AND OTHER IMPROVEMENTS SHALL BE PROTECTED FROM ANY AND ALL CONSTRUCTION IMPACTS. CONTRACTOR IS RESPONSIBLE FOR IRRIGATION OF PLANTINGS AS SEASONALLY REQUIRED BY USE OF EITHER TEMPORARY OR PERMANENT IRRIGATION SYSTEMS
- 05.11 SKATEBOARD DETERRENT
36" o.c., FASTEN PER MFR. REQUIREMENTS, TYPICAL AT ALL CONCRETE WALLS -
- 05.12 HANDRAIL
SEE STAIR NOTES ON SHEET A 1.2 - 055000
- 05.13 STAIR NOSING
- 055113
- 05.14 GUARDRAIL WITH ATTACHED HANDRAIL - 05 50 00
- 05.15 GUARDRAIL - 05 50 00
- 10.09 ISA SIGN
- 101400
- 11.06 VENDING MACHINE (BY OWNER)
- 32.1 CONCRETE STAIR
- 321313
- 32.2 CONCRETE LANDING
- SLOPE TO MATCH (E) GRADES AND PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS OR IMPROVEMENTS. STAIR LANDING, TOP OF CURB RAMP AND CONCRETE WALK INTERSECTION SHALL HAVE 1:4.8 MAX. SLOPE IN ANY DIRECTION. BOTTOM LANDING INTERSECTING WALK SHALL HAVE 1:4.8 MAX. SLOPE IN ANY DIRECTION. 32 13 13
- 32.4 CONCRETE WALL
- FINISHES TO MATCH ALONG LENGTH OF ENTIRE WALL. FINISH TO ACHIEVE AS SMOOTH A FINISH AS POSSIBLE, ROUNDED TOP EDGE. NO HEAVY BROOM FINISH. FINISH EXTENDS FROM TOP OF FOOTING UPWARD ON ALL SECTIONS OF WALL, REGARDLESS OF LOCATION ON SITE. WALL JOINTS 10'-0" MAX. SPACING PLUS AT EACH CORNER, 6" MIN. FROM CORNERS. ADJUST SPACING TO MAKE DISTANCES BETWEEN JOINTS EQUAL (BUT LESS THAN 10'-0"). ADJUST SPACING OF SIDEWALK JOINTS TO ALIGN WITH WALL JOINTS WHILE NOT EXCEEDING MAXIMUM SPACING OF SIDEWALK JOINTS. - 321313
- 32.6 CONCRETE WALKWAY
- PROVIDE NEW CONCRETE WALKWAY, SLOPE TO MATCH (E) GRADES AND PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS OR IMPROVEMENTS. PROVIDE 5% MAX SLOPE (IN DIRECTION OF TRAVEL), 2% MAX. CROSS SLOPE. - 321313
- 32.7 GRADE BREAK SHALL BE PERPENDICULAR TO DIRECTION OF RAMP RUN (CGC 11B-406.5.6)
- 321313
- 32.9 DETECTABLE WARNING, 36" MIN. IN DIRECTION OF TRAVEL, FULL WIDTH LESS 2" MAX. EACH SIDE, 6" MIN., 8" MAX. FROM FACE OF CURB



Revisions
10/3/2018 PLAN CHECK
11/9/2018 Addendum B

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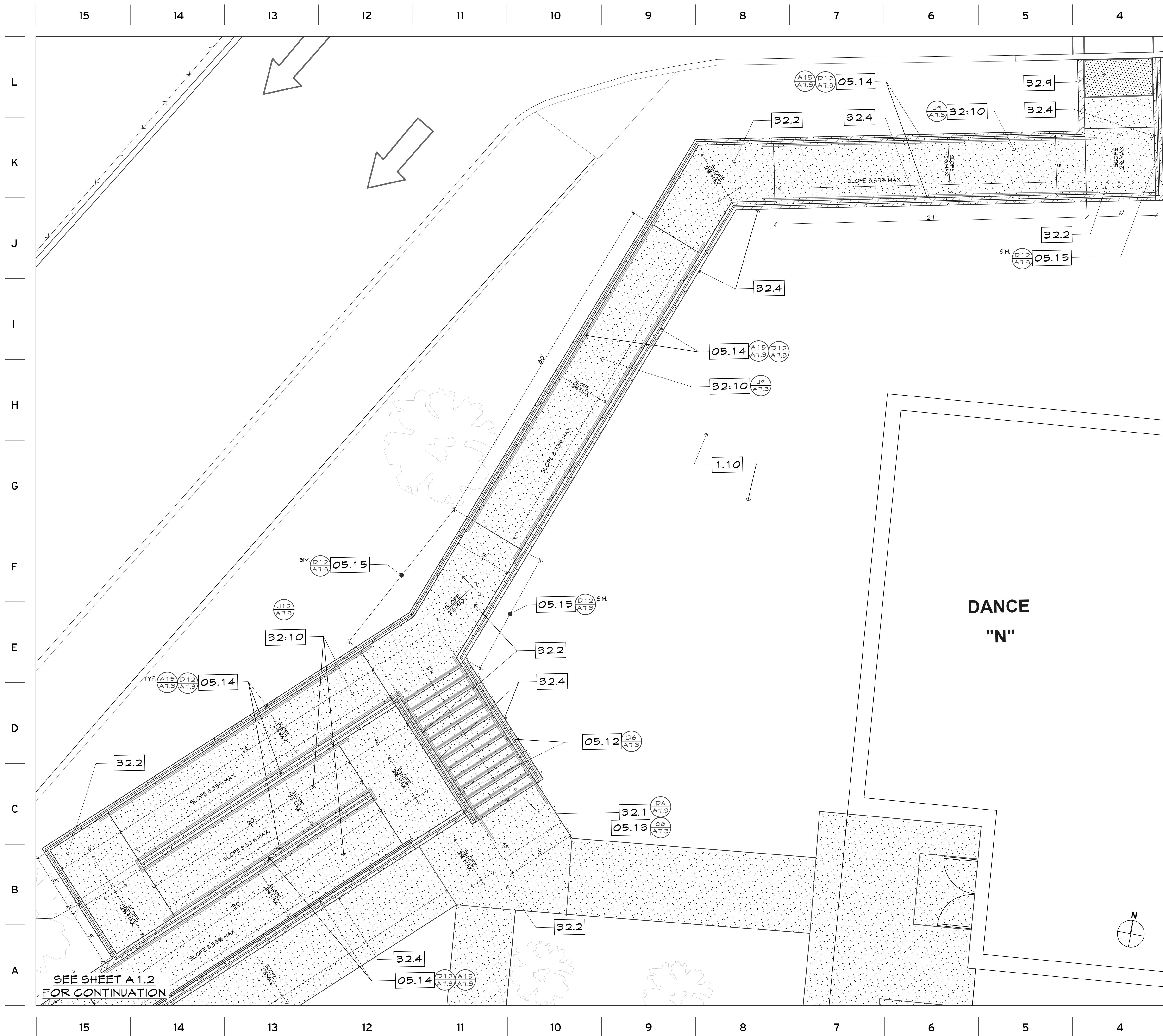
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POOL BUILDING RENOVATION
for
NEVADA JOINT UNION HIGH SCHOOL DISTRICT
NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

11/12/18
17-429
PARTIAL SITE PLAN
A 1.2



KEY NOTES

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- 05.12 HANDRAIL
SEE STAIR NOTES ON SHEET A 1.2 - 055000
- 05.13 STAIR NOSING
- 055113
- 05.14 GUARDRAIL WITH ATTACHED HANDRAIL - 05 50 00
- 05.15 GUARDRAIL - 05 50 00
- 32.1 CONCRETE STAIR
- 32 13 13
- 32.2 CONCRETE LANDING
- SLOPE TO MATCH (E) GRADES AND PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS OR IMPROVEMENTS. STAIR LANDING, TOP OF CURB RAMP AND CONCRETE WALK INTERSECTION SHALL HAVE 1:48 MAX. SLOPE IN ANY DIRECTION. BOTTOM LANDING INTERSECTING WALK SHALL HAVE 1:48 MAX. SLOPE IN ANY DIRECTION. 32 13 13
- 32.4 CONCRETE WALL
- FINISHES TO MATCH ALONG LENGTH OF ENTIRE WALL. FINISH TO ACHIEVE AS SMOOTH A FINISH AS POSSIBLE, ROUNDED TOP EDGE, NO HEAVY BROOM FINISH. FINISH EXTENDS FROM TOP OF FOOTING UPWARD ON ALL SECTIONS OF WALL, REGARDLESS OF LOCATION ON SITE. WALL JOINTS 10'-0" MAX. SPACING PLUS AT EACH CORNER, 6" MIN. FROM CORNERS. ADJUST SPACING TO MAKE DISTANCES BETWEEN JOINTS EQUAL (BUT LESS THAN 10'-0"). ADJUST SPACING OF SIDEWALK JOINTS TO ALIGN WITH WALL JOINTS WHILE NOT EXCEEDING MAXIMUM SPACING OF SIDEWALK JOINTS. - 32 13 13
- 32.9 DETECTABLE WARNING, 36" MIN. IN DIRECTION OF TRAVEL, FULL WIDTH LESS 2" MAX. EACH SIDE, 6" MIN. - 8" MAX. FROM FACE OF CURB
- 32.10 CONCRETE RAMP - 32 13 13



Revisions	
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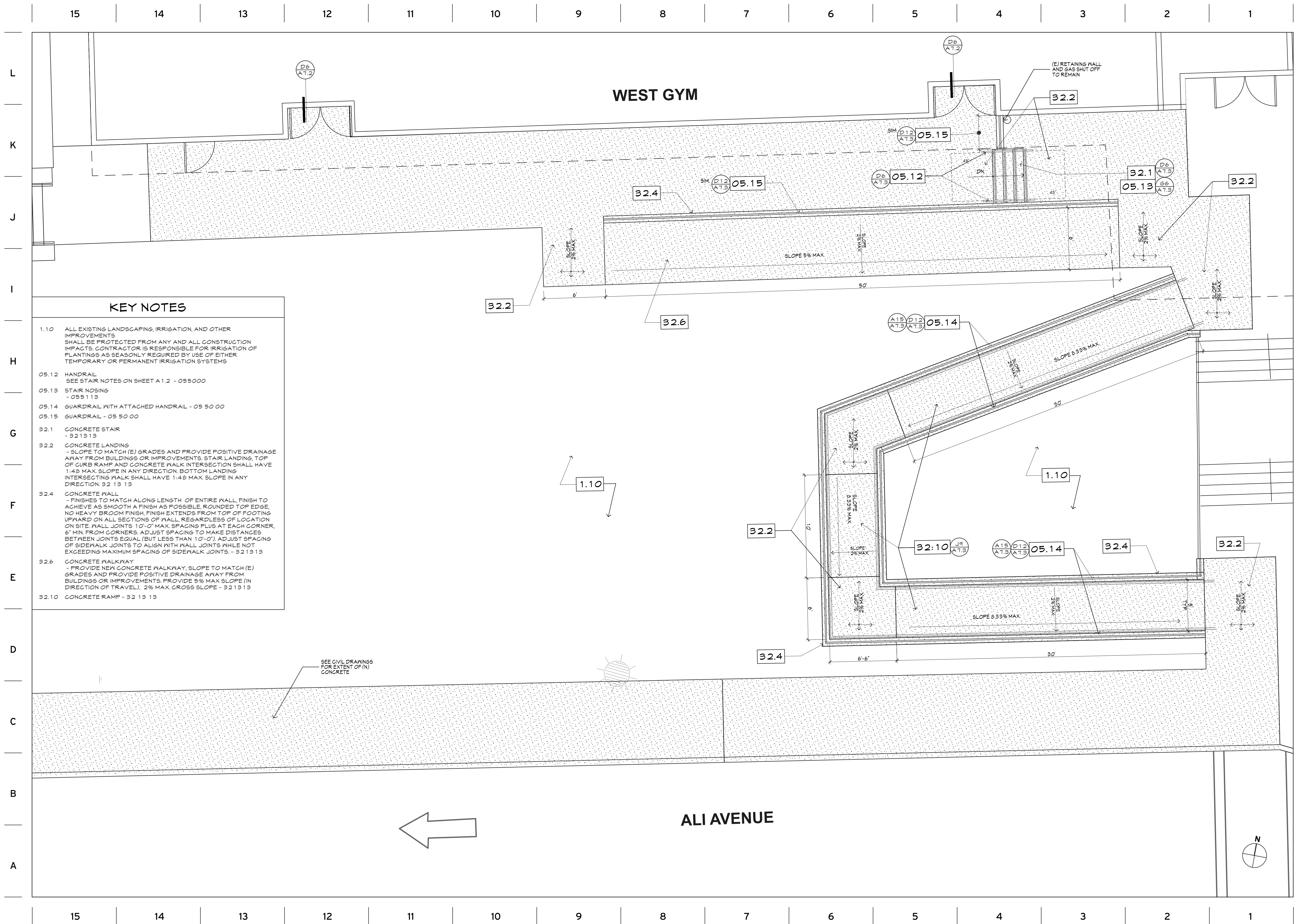
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DATE	11/12/18
SCALE	17-429

PARTIAL SITE PLAN
A 1.3



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- 32.10 CONCRETE RAMP - 32 13 13

SEE CIVIL DRAWINGS FOR EXTENT OF (N) CONCRETE



Revisions	
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POOL BUILDING RENOVATION
for
NEVADA JOINT UNION HIGH SCHOOL DISTRICT
NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE	11/12/18
SCALE	1/4" = 1'-0"
NO.	17-429

PARTIAL SITE PLAN
A 1.4


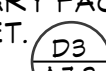
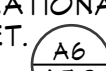
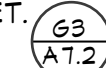
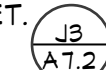
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KEYNOTES

- 03.14 HYDRONICALLY HEATED SLABS AT SHOWER, SEE SHEET M 1.2, SLOPE 2% MAX. TO DRAIN, EXPANSION JOINT ALL AROUND SLAB, SEE DETAIL 3, SHEET C 4.6 - 321313
- 06.09 SINGLE-TIER MELAMINE SURFACED SHELF WITH BRACKETS 12" DEEP, FULL WIDTH OF CLOSET, SEE A 9, SHEET A 7.3 FOR BLOCKING - 064116A9
- 08.12 POWER DOOR ACTUATOR PUSH PLATES (HIGH/LOW), CENTERLINE OF LOWER ACTUATOR AT 7" MIN-8" MAX. ABOVE FINISHED FLOOR, HIGH ACTUATOR AT 30" MIN-44" MAX. ABOVE FINISHED FLOOR - 08 T1 00

SIGNAGE SCHEDULE






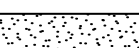
- FOR SIGN DETAILS, SEE SHEET A 7.2
- A SANITARY FACILITY SIGNAGE, DOOR MOUNTED SEE DET.  A3 A7.2
 - B SANITARY FACILITY SIGNAGE, WALL MOUNTED SEE DET.  B3 A7.2
 - C ROOM ID. SIGNAGE, WALL MOUNTED
 - D INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGNAGE SEE DET.  A6 A7.2
 - E 'EXIT ONLY, NO ENTRANCE' WALL-MOUNTED SEE DET.  G3 A7.2
 - F BRAILLE EXIT WALL-MOUNTED SIGN SEE DET.  J3 A7.2

NOTE:
DOOR MOUNTED SANITARY FACILITY SIGN SHALL BE CONTRASTING BLUE AND WHITE. NON-DOOR MOUNTED SIGN COLOR SHALL BE SELECTED BY OWNER/ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS TO MATCH FACILITY STANDARDS. ROOM NAMES AND PICTOGRAM OPTIONS SHALL BE SELECTED BY OWNER.

NOTES

1. THE OWNER REQUIRES UNIFORMITY IN THE FINISHES OF ACCESSORIES TO THE GREATEST EXTENT POSSIBLE. IT IS THE RESPONSIBILITY OF THE SUCCESSFUL GENERAL CONTRACTOR TO COORDINATE MANUFACTURER, RESEARCH, SUPPLIERS, PRODUCT DATA, SUBMITTALS, MEETINGS WITH THE OWNER, AND INSTALLATION IN A WAY THAT MAXIMIZES THIS UNIFORMITY TO THE HIGHEST REASONABLE STANDARD.
2. FOR ANY FREESTANDING ACCESSORY SEE DETAIL G 15, SHEET A 7.3 FOR ATTACHMENT
3. PROVIDE BLOCKING FOR ALL WALL MOUNTED ACCESSORIES AND FIXTURES, SEE SHEET S 0.1, "EQUIPMENT ANCHORAGE NOTES."
4. WHERE LOCKER ROOM FLOOR IS TO SLOPE TO DRAIN, FINISHED FLOOR SHALL SLOPE 1/2%.

LEGEND

-  (N) PARTITION - SEE SHEETS 'S 1.1' & 'S 2.1'
-  (N) SIGN, SEE SCHEDULE THIS SHEET
-  (E) WALL
-  D4 DOOR ID, SEE DOOR SCHEDULE, SHEET A 6.1
-  EQUIPMENT/ FIXTURE, SEE EQUIPMENT SCHEDULE SHEET A 6.1
-  (N) CONCRETE WARM SLAB, SLOPE 2% MAX.
- 07.21.00 SPECIFICATION SECTION, SEE PROJECT MANUAL



Revisions
10/3/2018 PLAN CHECK
11/9/2018 Addendum B

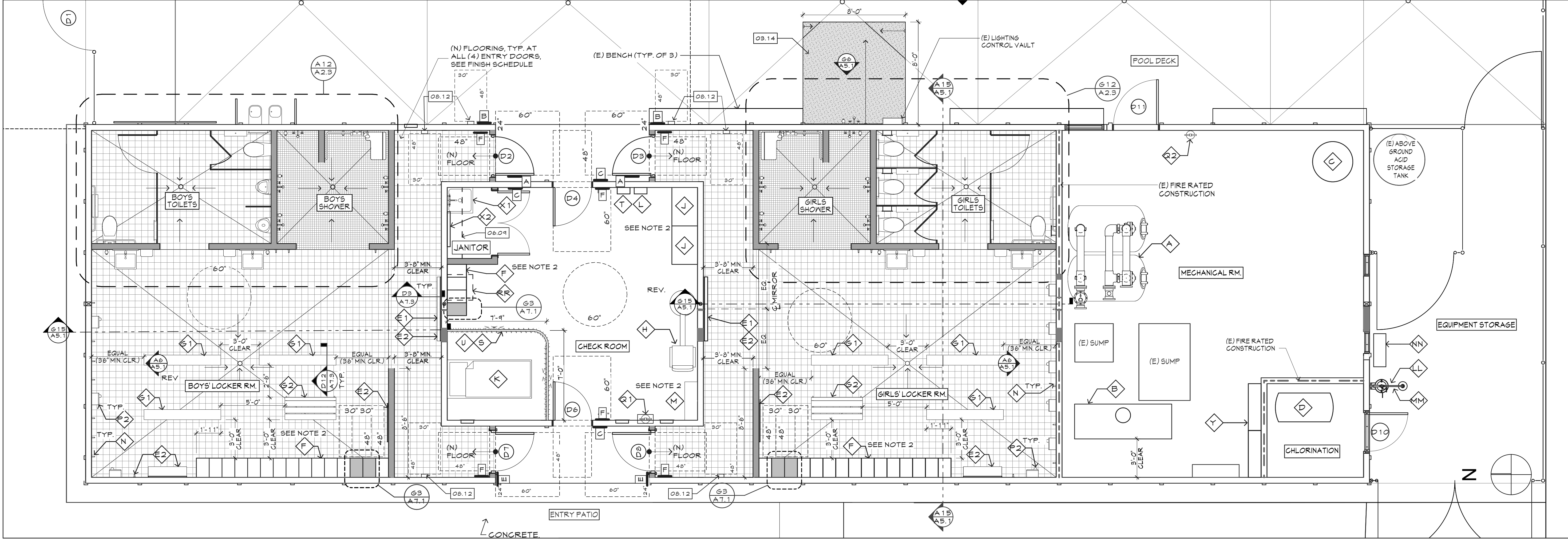
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POOL BUILDING RENOVATION
for
NEVADA JOINT UNION HIGH SCHOOL DISTRICT
NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

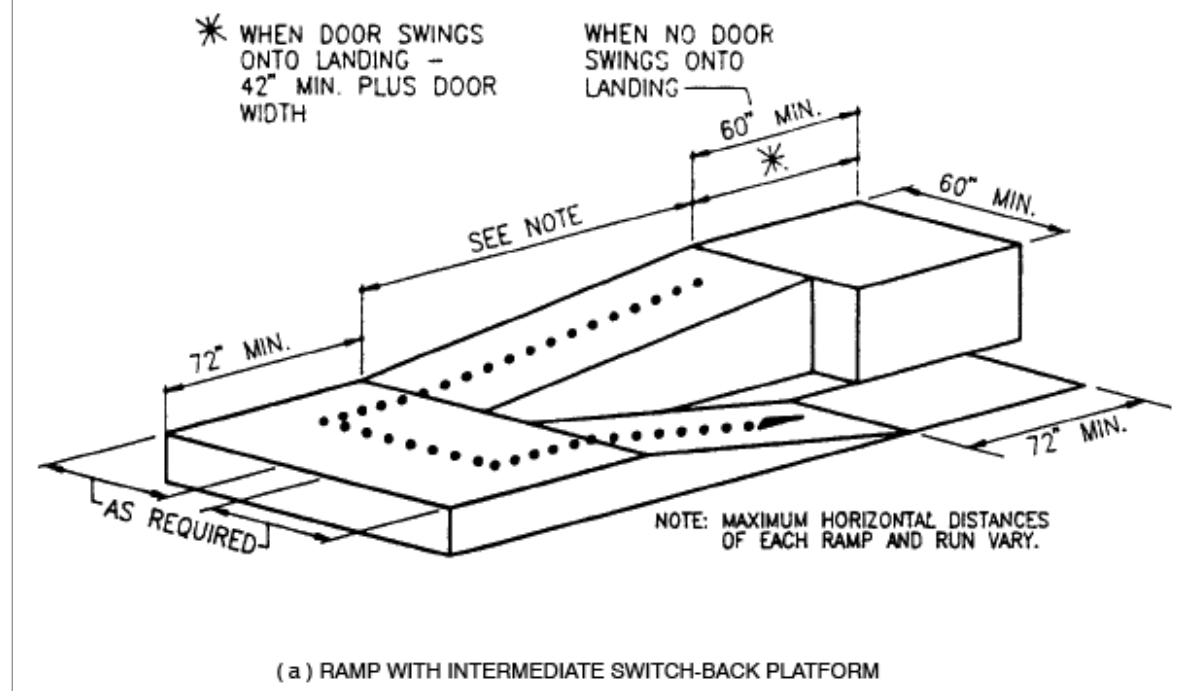
DATE	11/12/18
SCALE	1/4" = 1'0"
NO.	17-429

FLOOR PLAN
A22

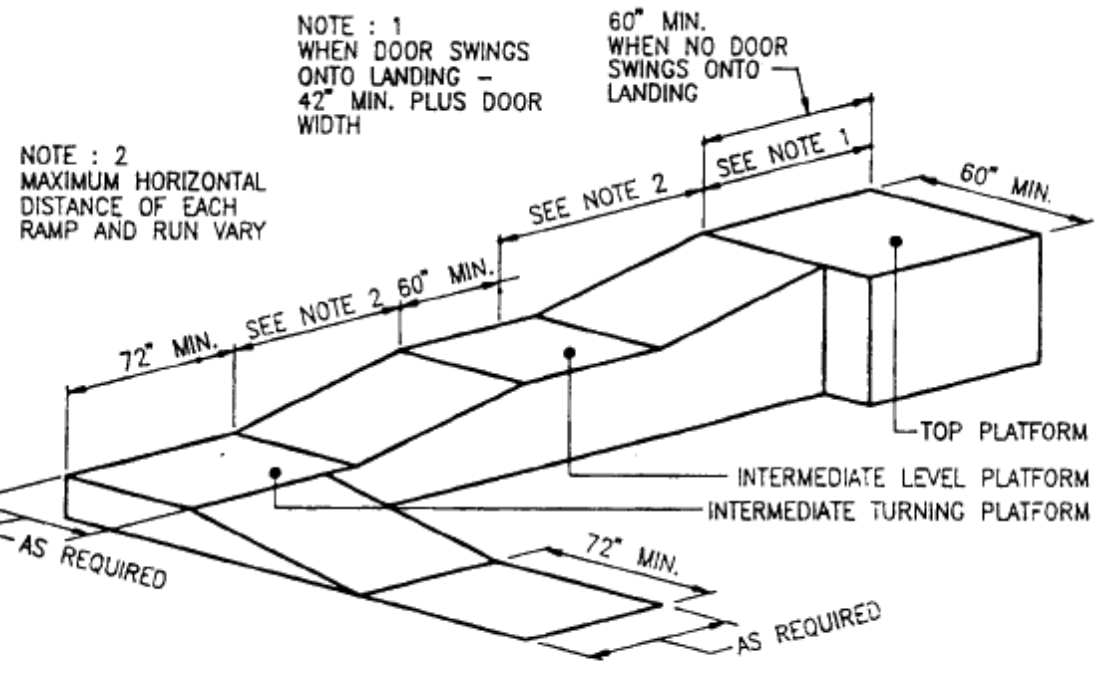


15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

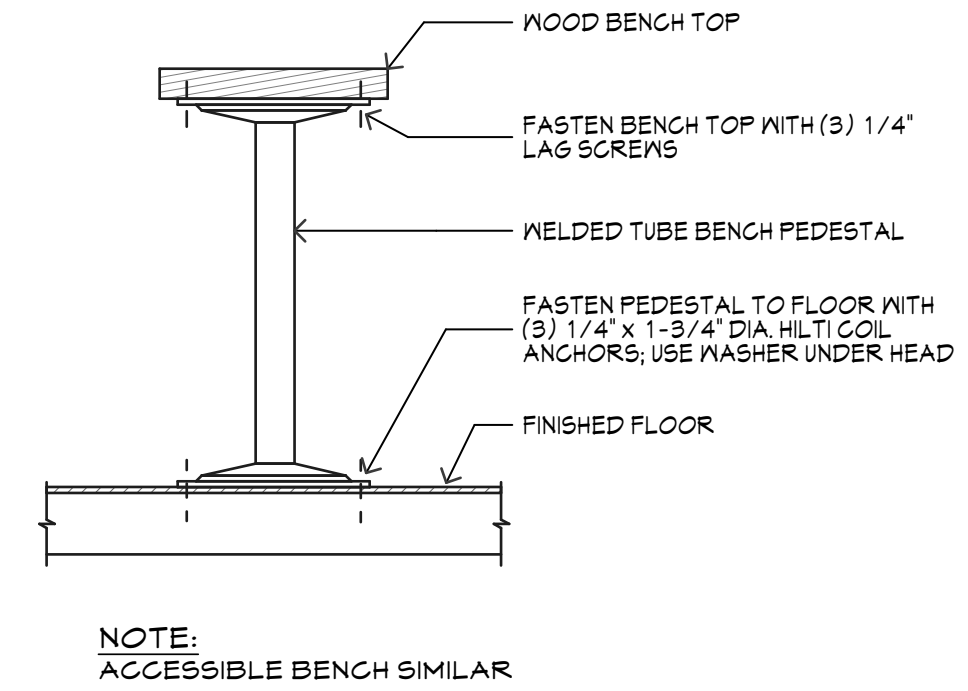
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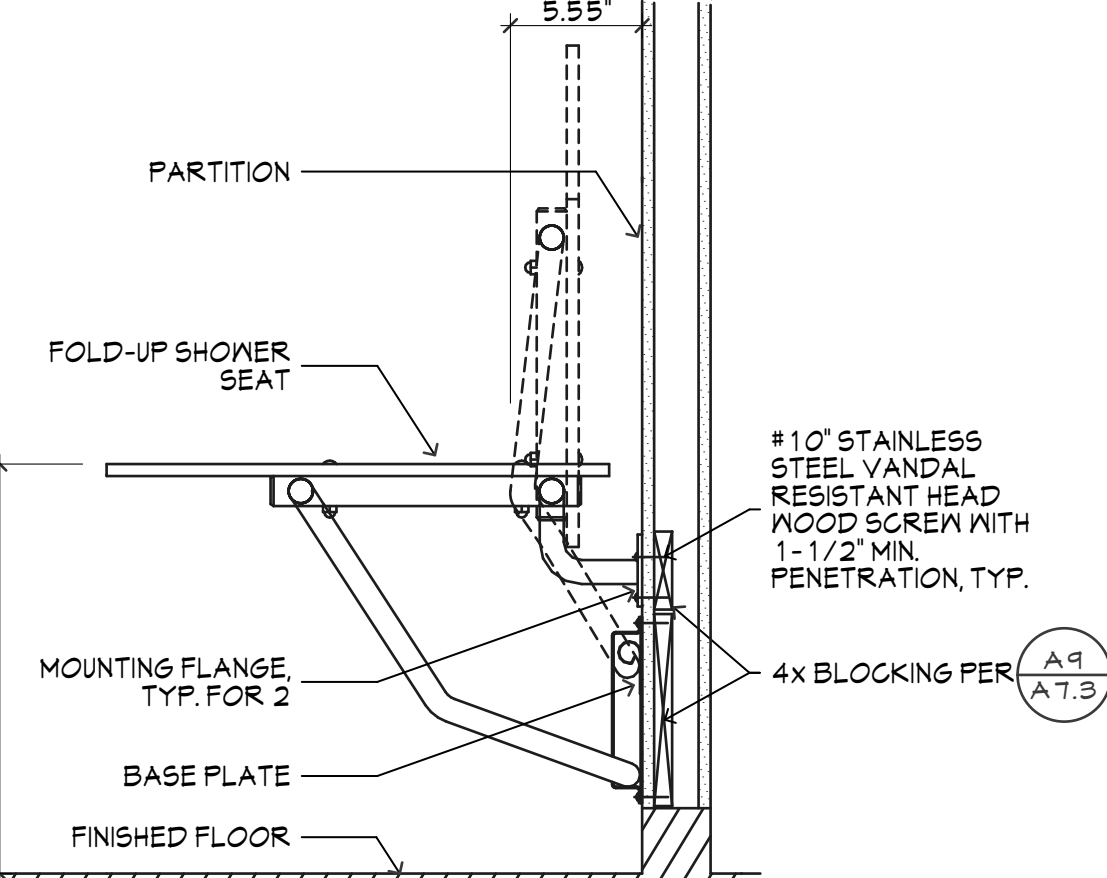
J12 RAMP WITH SWITCHBACK NOT TO SCALE



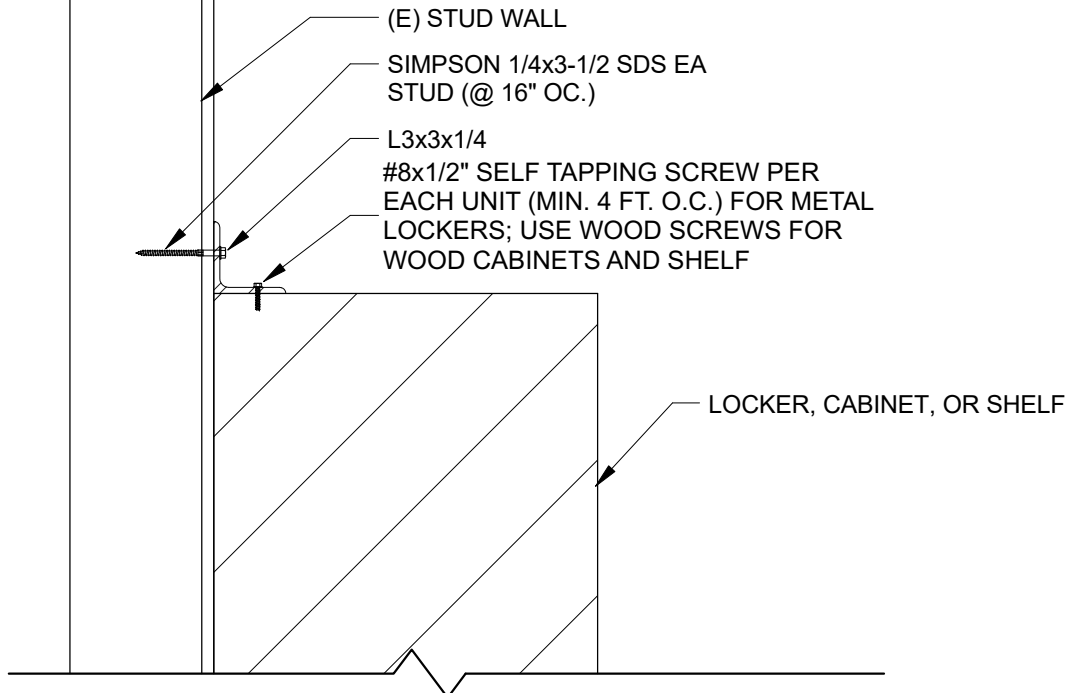
J9 RAMP WITH TURN NOT TO SCALE



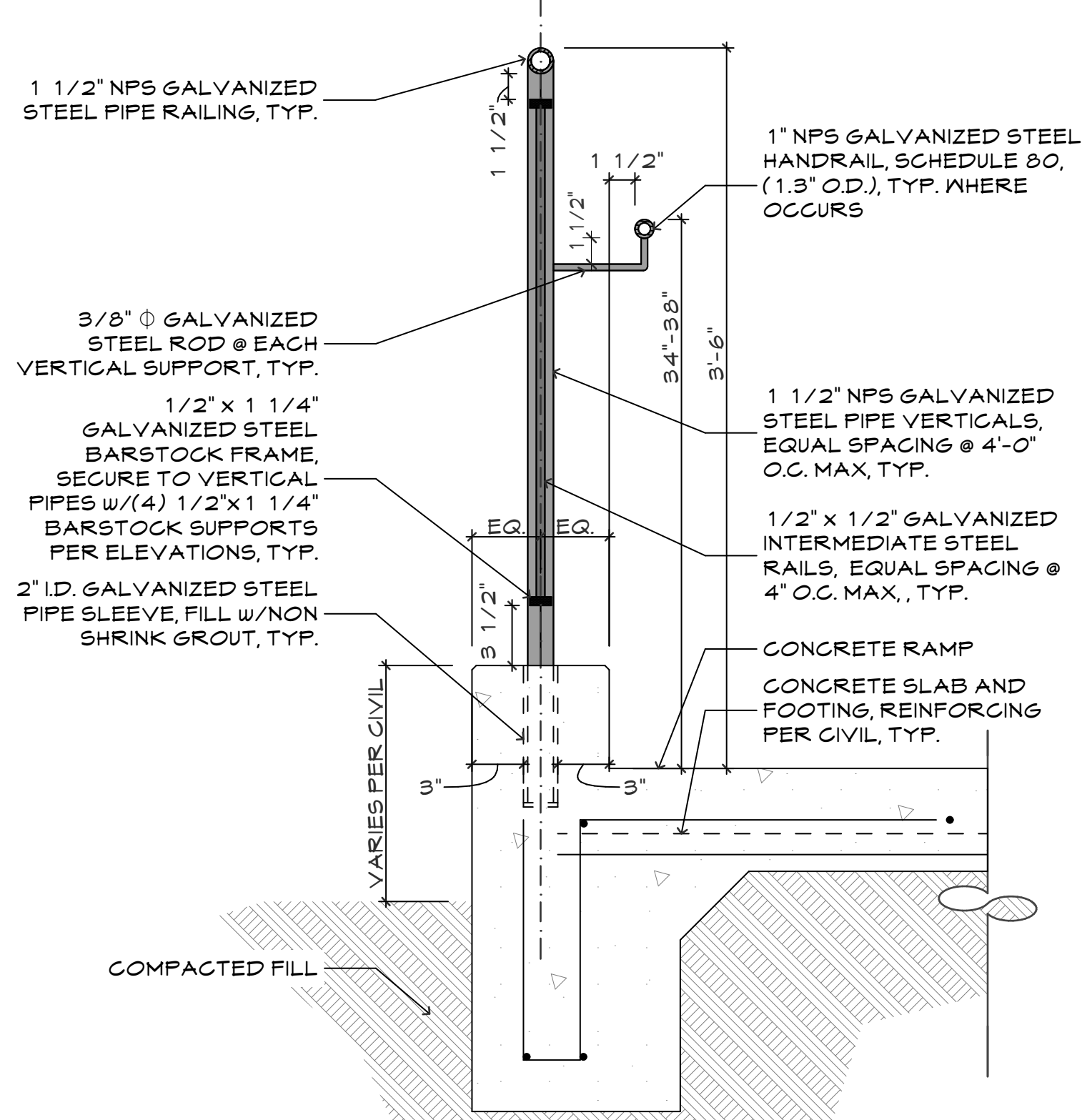
J6 BENCH 1 1/2\" = 1'-0\"



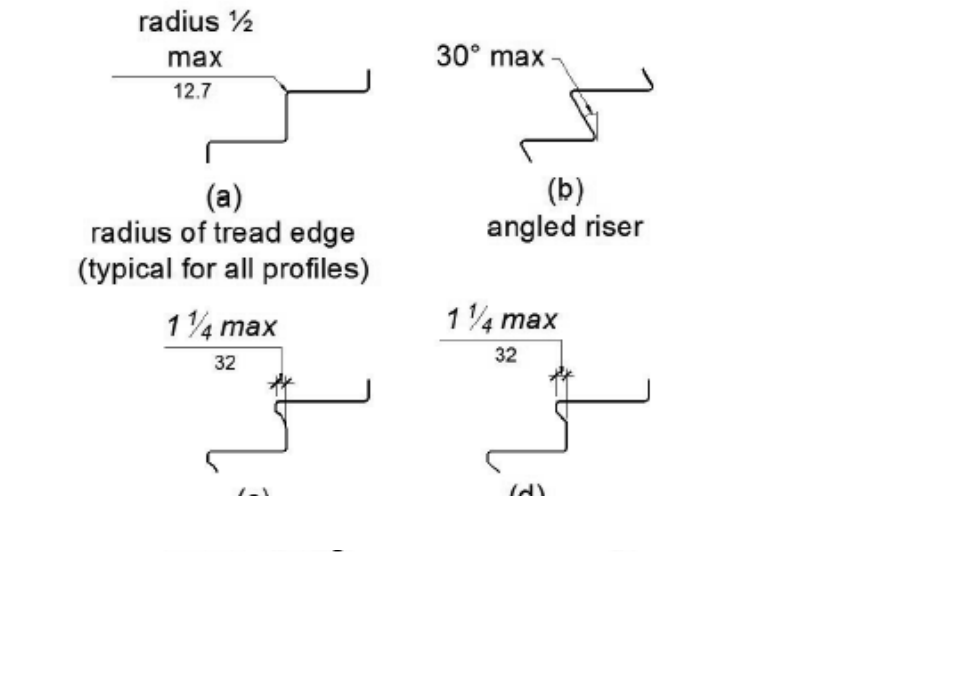
J3 FOLDING SHOWER SEAT NO SCALE



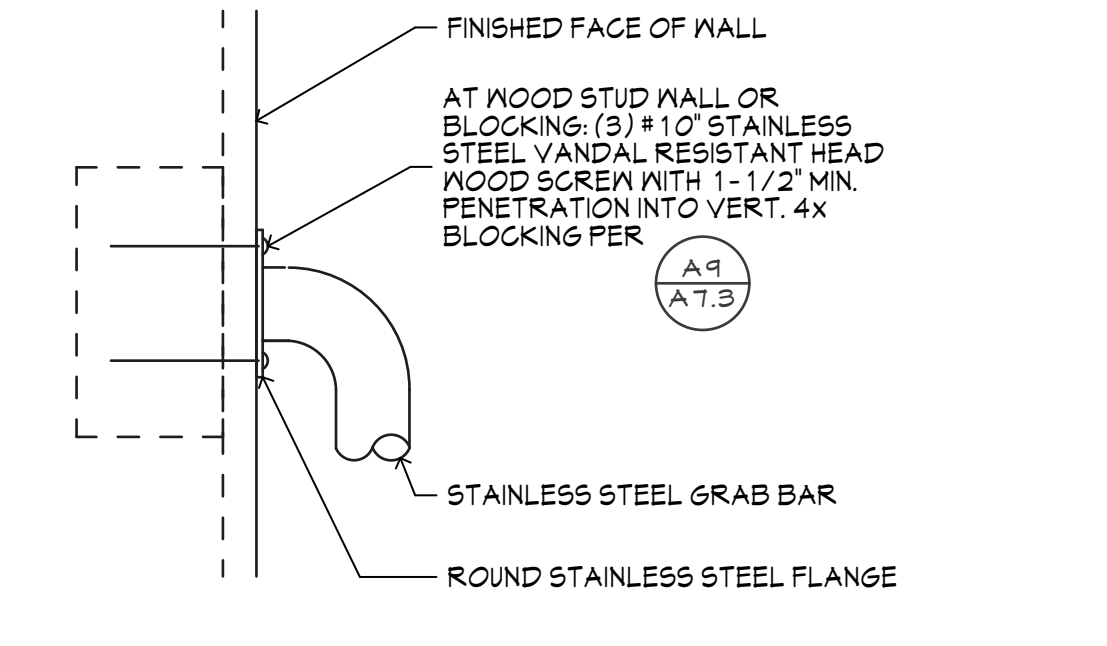
G15 ANCHORAGE OF STORAGE UNITS NOT TO SCALE



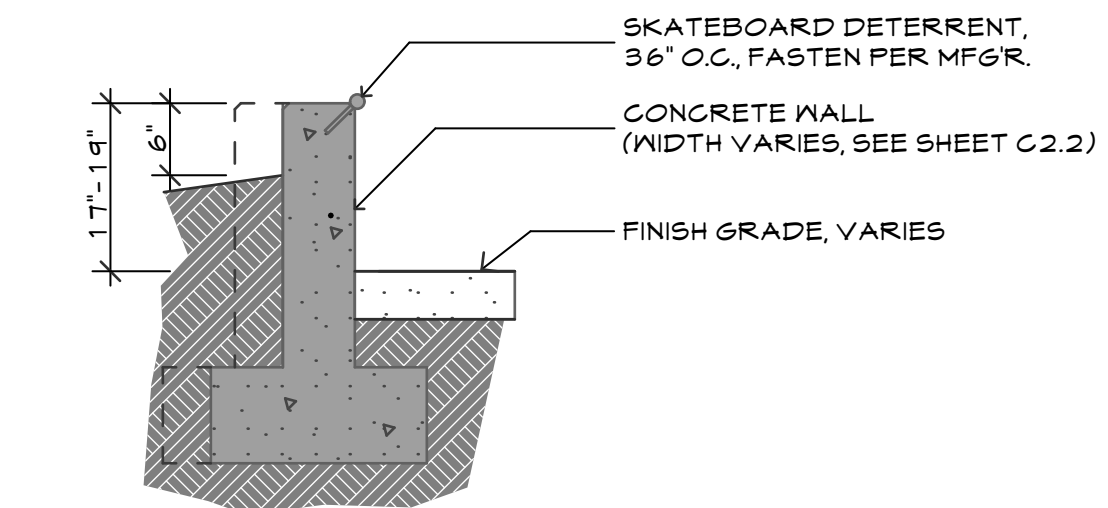
D12 RAMP RAILING 3/4\" = 1'-0\"



G6 STAIR NOSINGS NOT TO SCALE

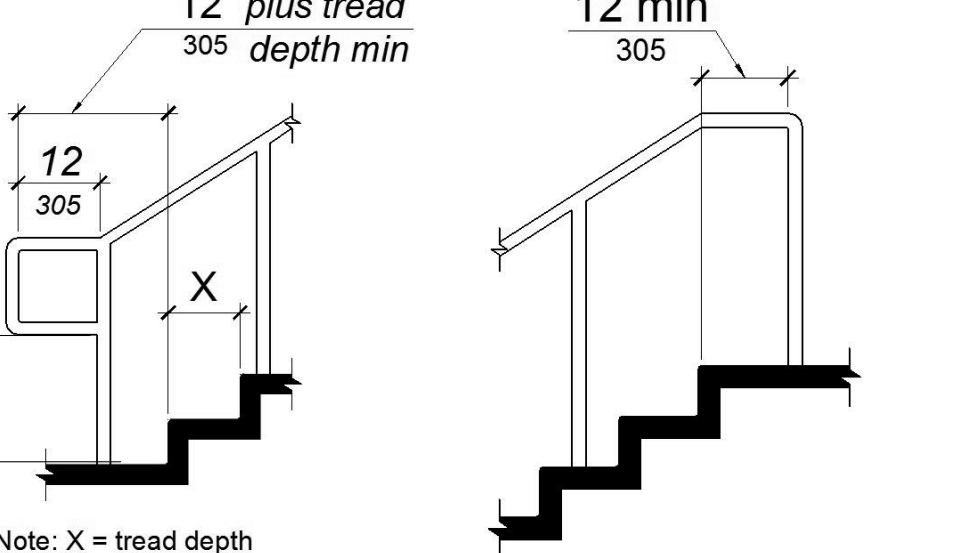


G3 TYPICAL GRAB BAR BLOCKING 3\" = 1'-0\"

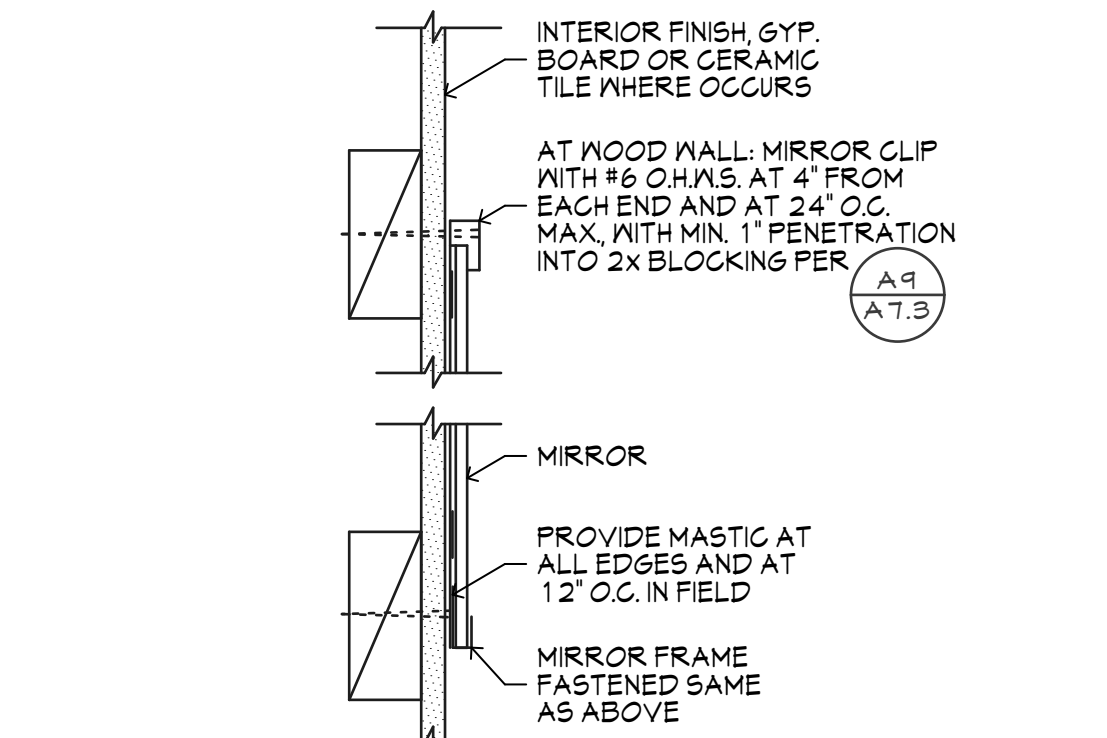


D15 LOW WALL 3/4\" = 1'-0\"

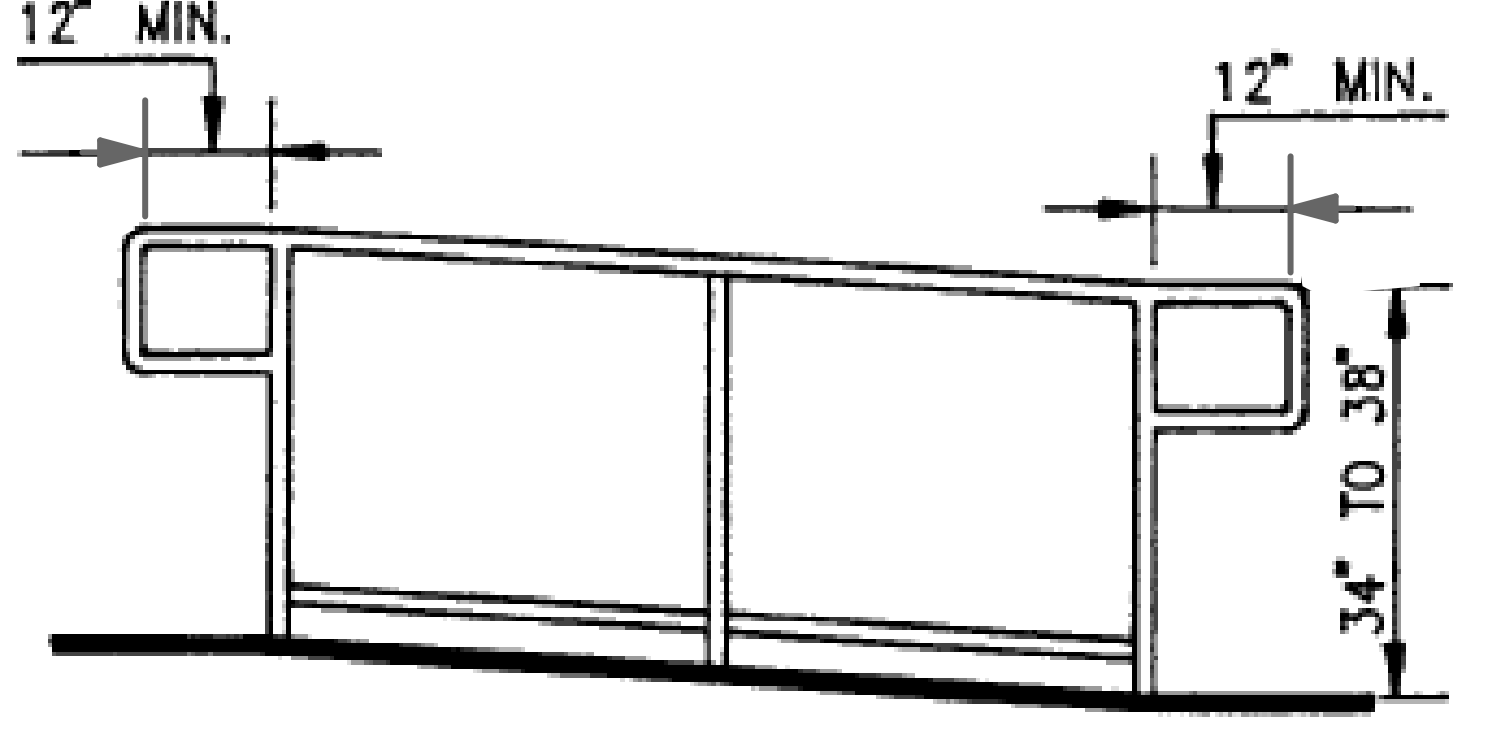
NOTES:
 1. ALL RAILING STEEL TO BE HOT DIP GALVANIZED.
 2. ALL STEEL PIPING TO BE SCHEDULE 40, U.N.O.
 3. GALVANIZE RAILING IN AS LARGE SECTION AS POSSIBLE
 4. ALL CONNECTIONS TO BE WELDED AND GROUND SMOOTH
 5. VERIFY DIMENSIONS IN FIELD
 6. SEE SPECIFICATIONS, SECTION 05 50 00



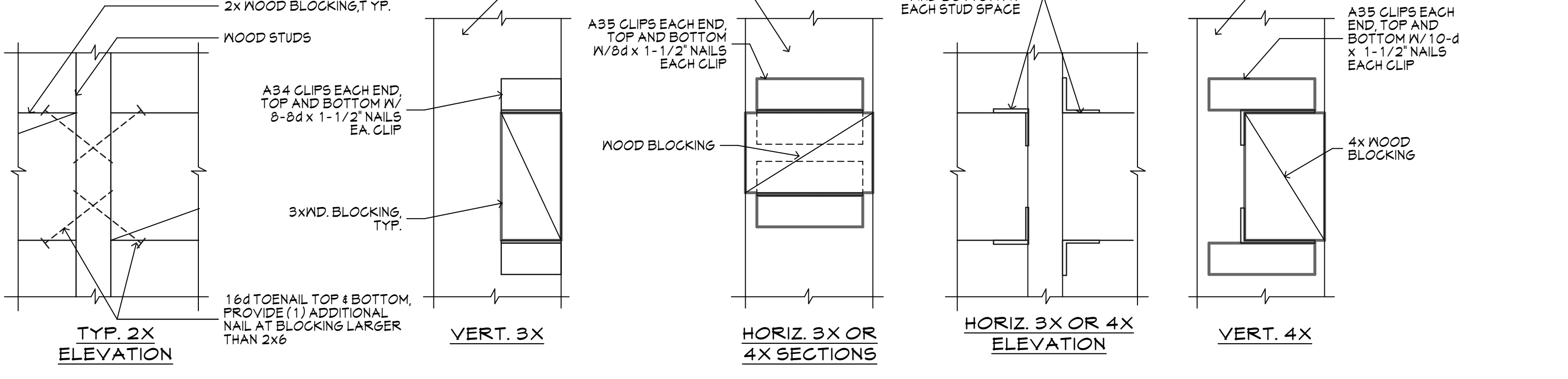
D6 STAIR RAILS AND STRIPING NOT TO SCALE



D3 MIRROR ATTACHMENT 3\" = 1'-0\"



A15 RAMP RAIL NOT TO SCALE



A9 TYPICAL WOOD BLOCKING 3\" = 1'-0\"



Revisions

10/3/2018	PLAN CHECK
11/9/2018	Addendum B

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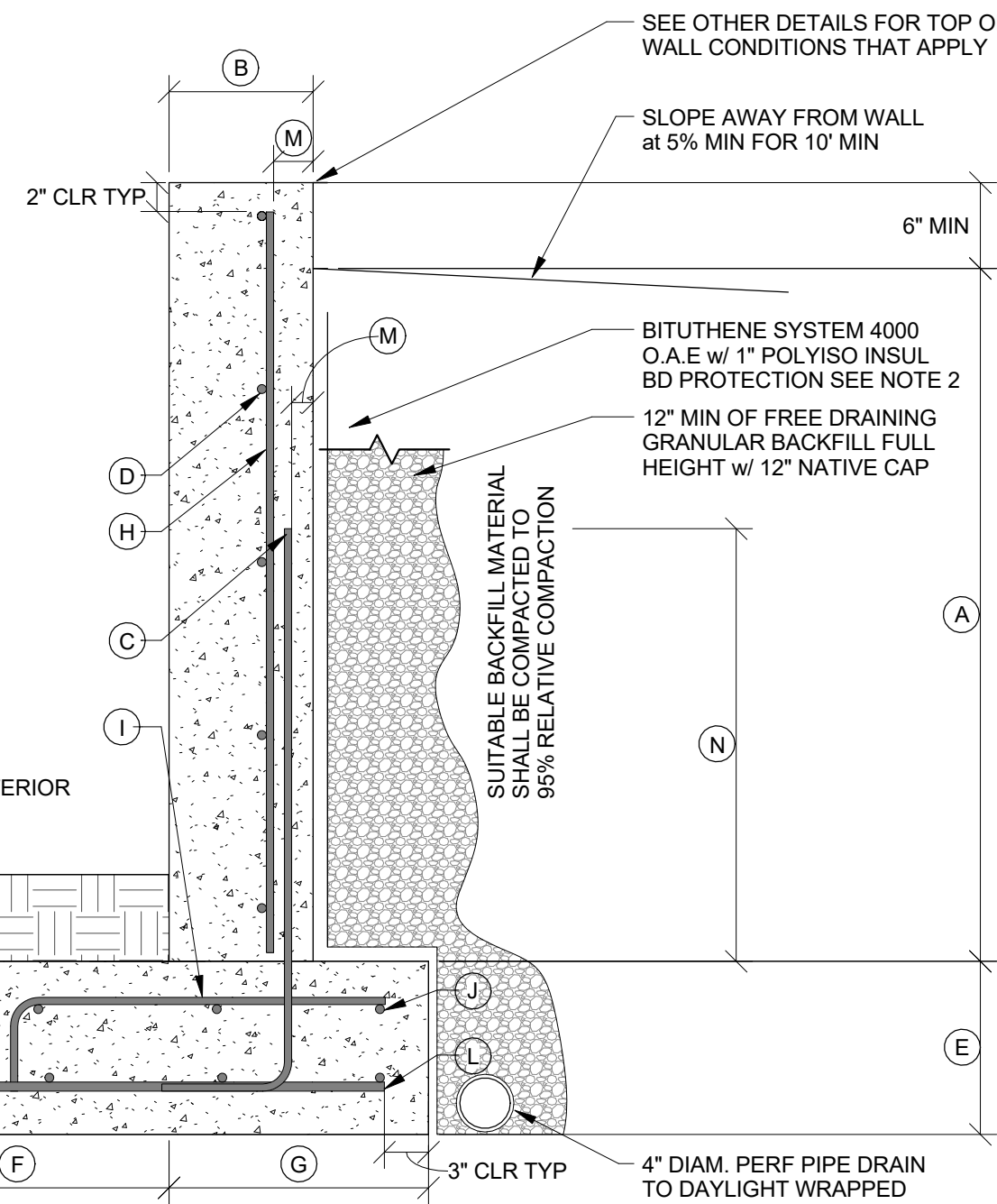
POOL BUILDING RENOVATION
 for
 NEVADA JOINT UNION HIGH SCHOOL DISTRICT
 NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE	11/12/18
SCALE	AS SHOWN
NO.	17-429

DETAILS
A7.3

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

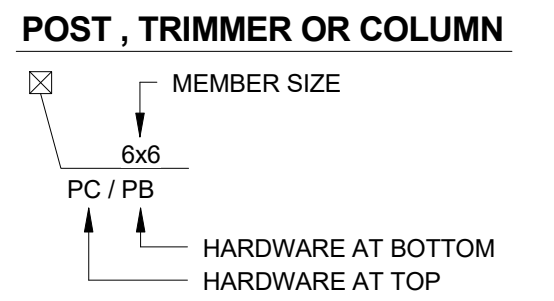
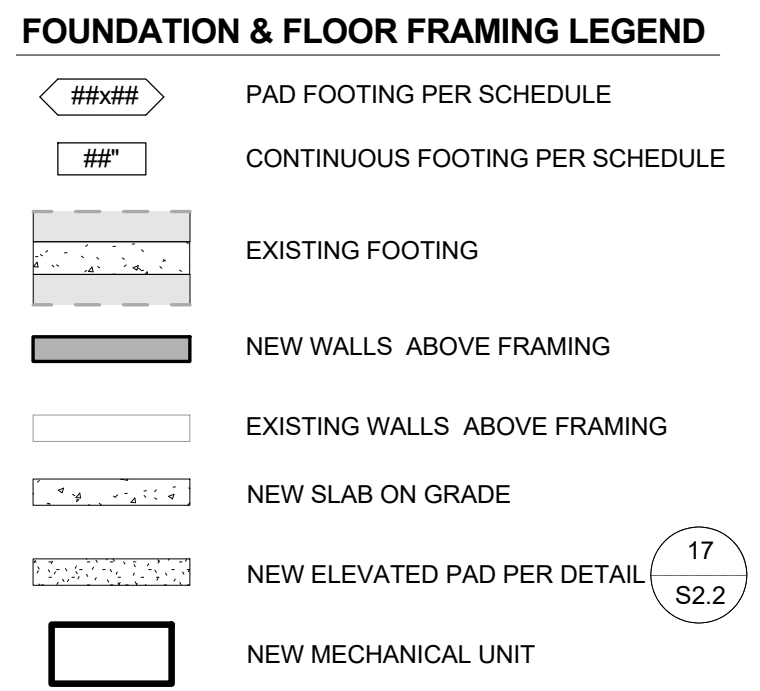
KEY NOTE	RET WALL	RET WALL	RET WALL	COMMENT
(A)	4'-0" MAX	4'-0" MAX	4'-0" MAX	MAX RETAINED HEIGHT TO TOP OF FOOTING
(B)	18" THICK CONC.	18" THICK CONC.	18" THICK CONC.	SEE NOTE 1
(C)	#5 @ 18" OC	#5 @ 18" OC	#5 @ 18" OC	HORIZ. TEMP. STL. LOCATION PER KEY NOTE M
(D)	#5 @ 18" OC	#5 @ 18" OC	#5 @ 18" OC	FOOTING THICKNESS
(E)	12"	12"	18"	EDGE FOOTINGS TO INSIDE FACE OF WALL
(F)	12"	12"	27"	EDGE FOOTINGS TO INSIDE FACE OF WALL
(G)	15"	27"	36"	
(H)	#5 @ 18" OC	#5 @ 18" OC	#5 @ 18" OC	VERT. STL. TEMP. STL. LOCATION PER KEY NOTE M
(I)	NOT REQD.	NOT REQD.	NOT REQD.	THICKER FOR PLACEMENT OF REIN.
(J)	NOT REQD.	NOT REQD.	NOT REQD.	EQ SPACED
(K)	(2) - #5 CONT.	(3) - #5 CONT.	(E) - #5 CONT.	EQ SPACED
(L)	#5 @ 18" OC	#5 @ 18" OC	#5 @ 18" OC	
(M)	2"	2"	2"	CLR.
(N)	FULL HEIGHT	30"	30"	



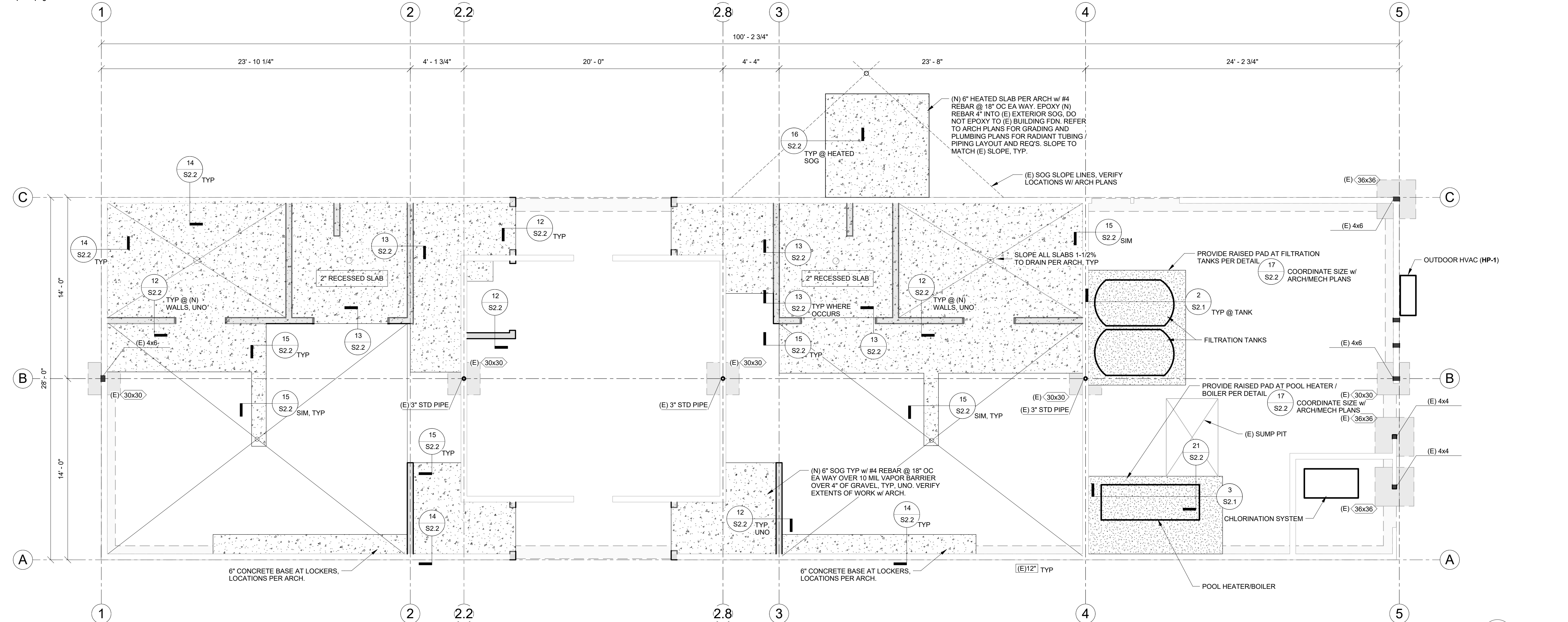
NOTES:
 1. REBAR PLACEMENT SHOWN NOT TO SCALE. PROVIDE PLACEMENT PER LEGEND AND KEY NOTES.
 2. CONSULT ENGINEER OR ARCHITECT OF RECORD FOR SUBSTITUTE DRAINAGE PROCEDURE SUCH AS MIRAFI DRAIN BOARD.
 3. SEE FRAMING DETAILS FOR ITEMS NOT SHOWN.
 4. CONTRACTOR SHALL VERIFY ALL RETAINING WALL LOCATIONS WITH ARCH AND CIVIL PLANS.

EQUIPMENT NOTES:
COMMERCIAL POOL HEATER/BOILER:
 - MAX OPERATING WEIGHT OF 1800 LBS.
FILTRATION TANKS:
 - MAX OPERATING WEIGHT OF EACH SS72 MODULE IS 7400 LBS.
 - SYSTEM IS A COMBINATION OF TWO MODULES FOR A TOTAL WEIGHT OF 14800 LBS.
HEAT RECOVERY VENTILATOR:
 - MAX WEIGHT OF 285 LBS
CHLORINATION SYSTEM:
 - MAX OPERATING WEIGHT OF 150 LBS
HVAC EQUIPMENT:
 - INDOOR HEAT PUMP WALL UNIT MAX WEIGHT OF 31 LBS
 - OUTDOOR HEAT PUMP SHALL WEIGH LESS THAN 400 LBS
CHEMICAL CONTROL SYSTEM:
 - WALL UNIT SHALL WEIGH LESS THAN 20 LBS
EXHAUST FAN:
 - EXHAUST FANS SHALL WEIGH LESS THAN 20 LBS
EXHAUST PENTHOUSE:
 - LOUVERED PENTHOUSE SHALL WEIGH LESS THAN 70 LBS
DUCTWORK:
 - MAX WEIGHT OF 8 #/FT

FOUNDATION NOTES
 1) SEE ADDITIONAL REQUIREMENTS IN STRUCTURAL SPECIFICATIONS ON SHEET S0.1
 2) ALL FRAMING IS AS-BUILT CONDITIONS, UNO. EXISTING FOUNDATION ENCOMPASSES 2x4 EXTERIOR STUDWALLS WITH 12" CONTINUOUS FOOTING AND AN INTERIOR 6" SOG.
 3) CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND PRIOR TO CONSTRUCTION.
 4) REFER TO STRUCTURAL SPECIFICATIONS FOR SUBGRADE AND SOIL PREPARATION REQUIREMENTS. PROVIDE 4" OF GRAVEL WITH 10 MIL VAPOR BARRIER AT NEW SLAB ON GRADE PER PLAN.
 5) VERIFY ALL UNIT LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING PLANS.



RETAINING WALL DETAILING
 1" = 1'-0"



FOUNDATION AND ANCHORAGE PLAN
 1/4" = 1'-0"



Revisions

2	Addendum 3	11-9-18
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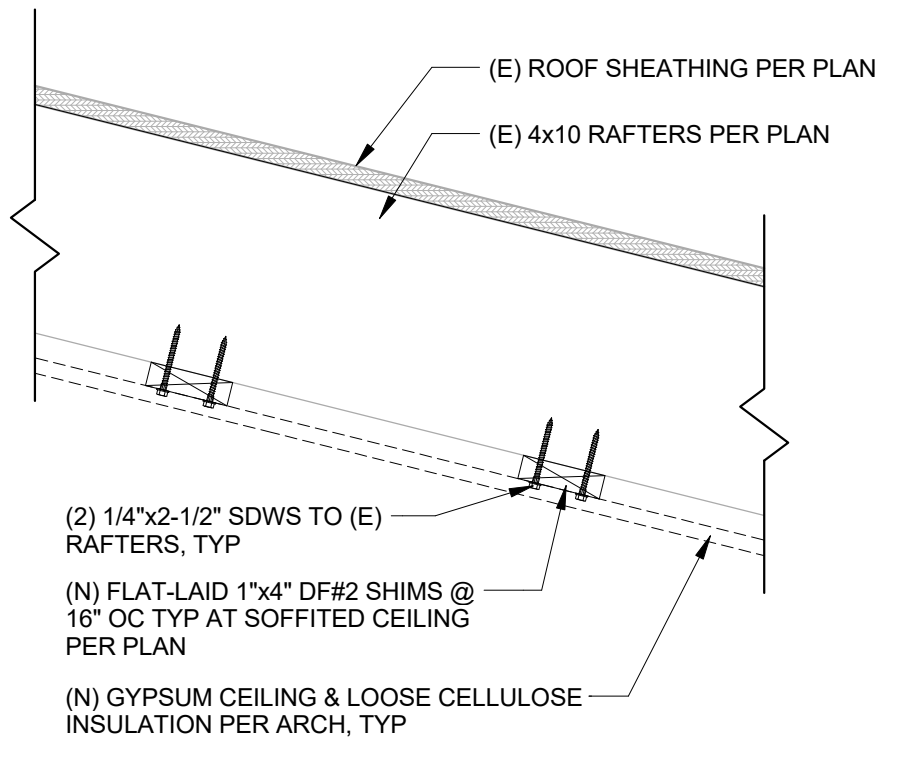
POOL BUILDING RENOVATION
 for
 NUJHSD
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA 95945

DATE	10/11/18
SCALE	As indicated
JOB #	2035

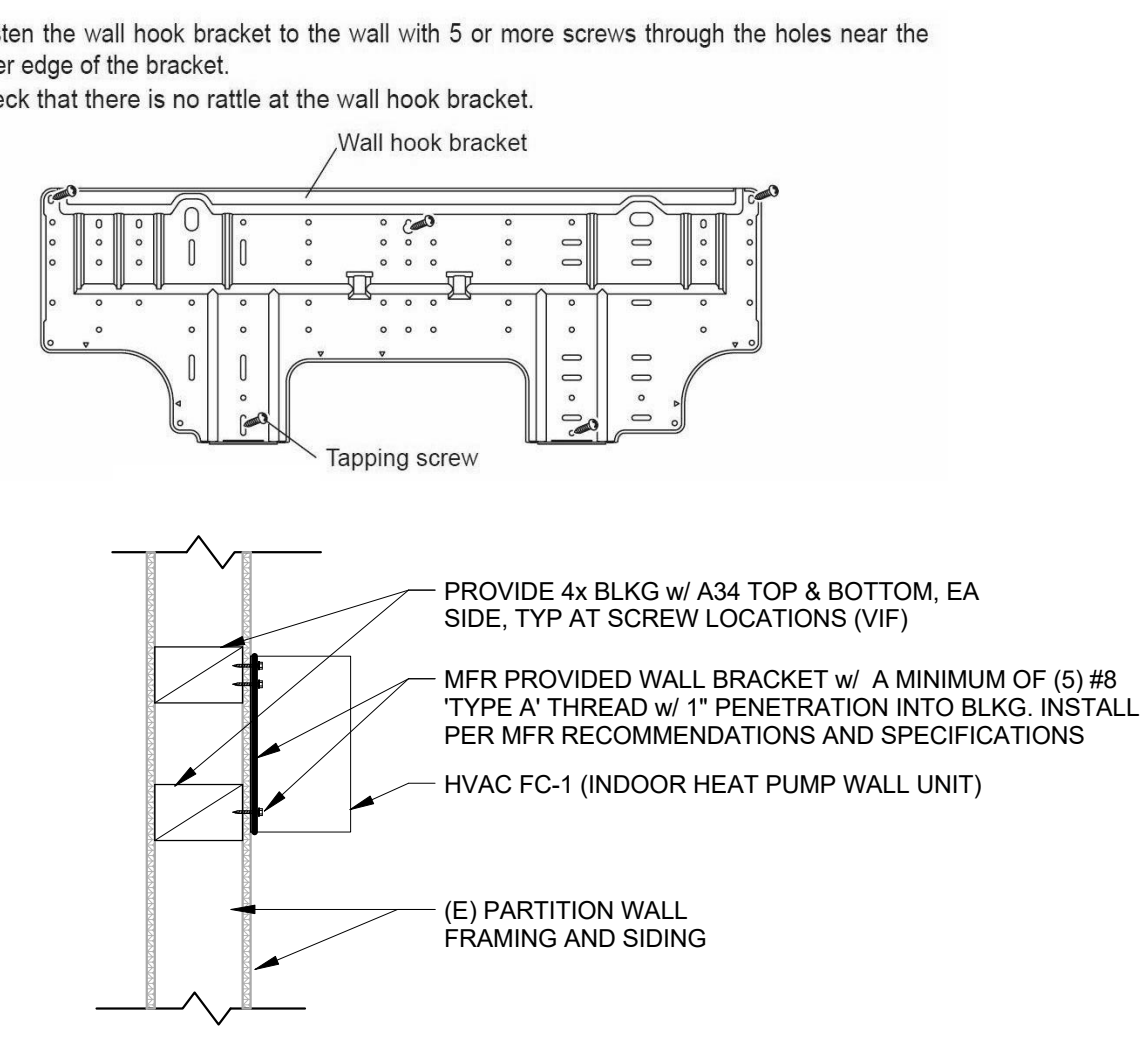
FOUNDATION PLAN
S1.0

L
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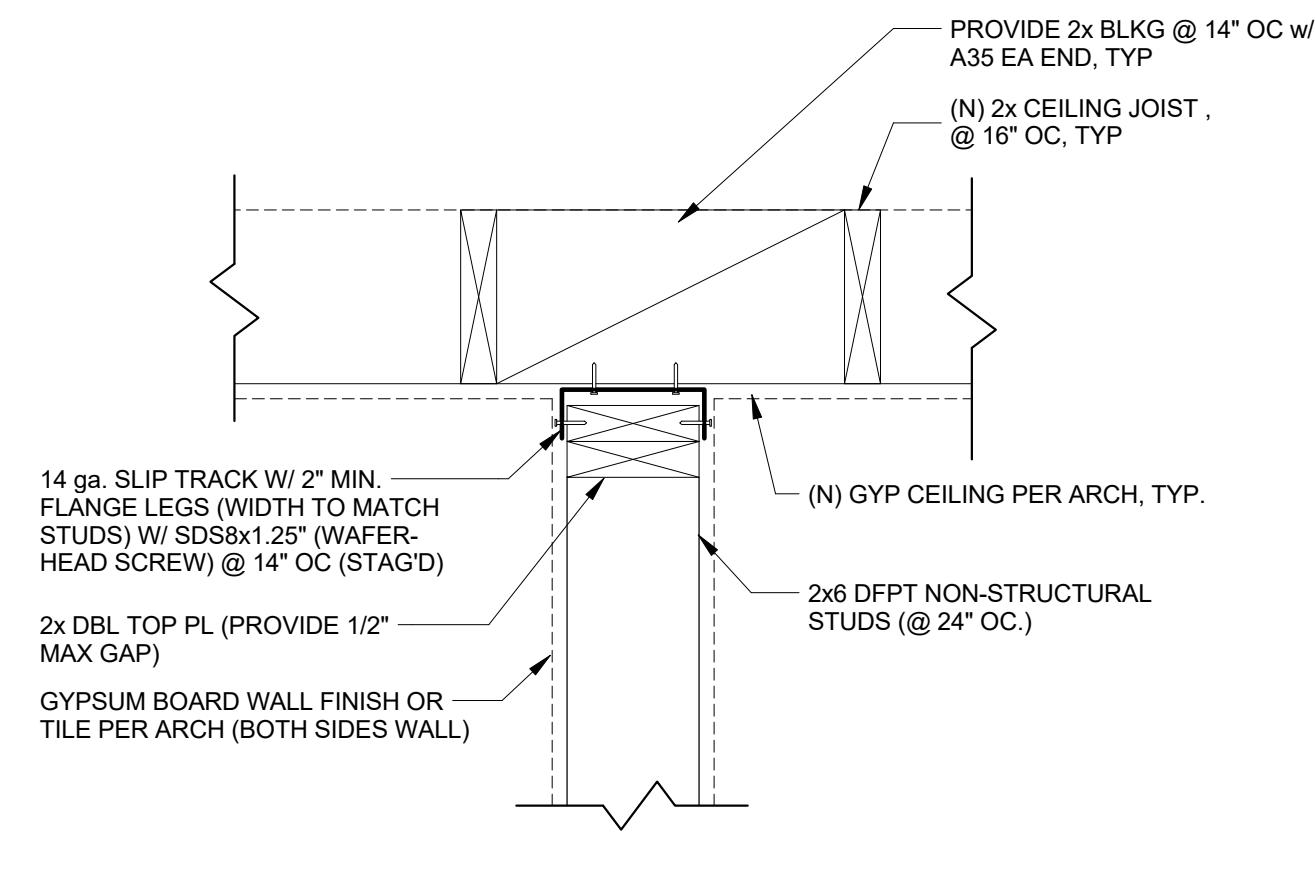
11 TYPICAL GYPSUM CEILING SUPPORT
1 1/2" = 1'-0"



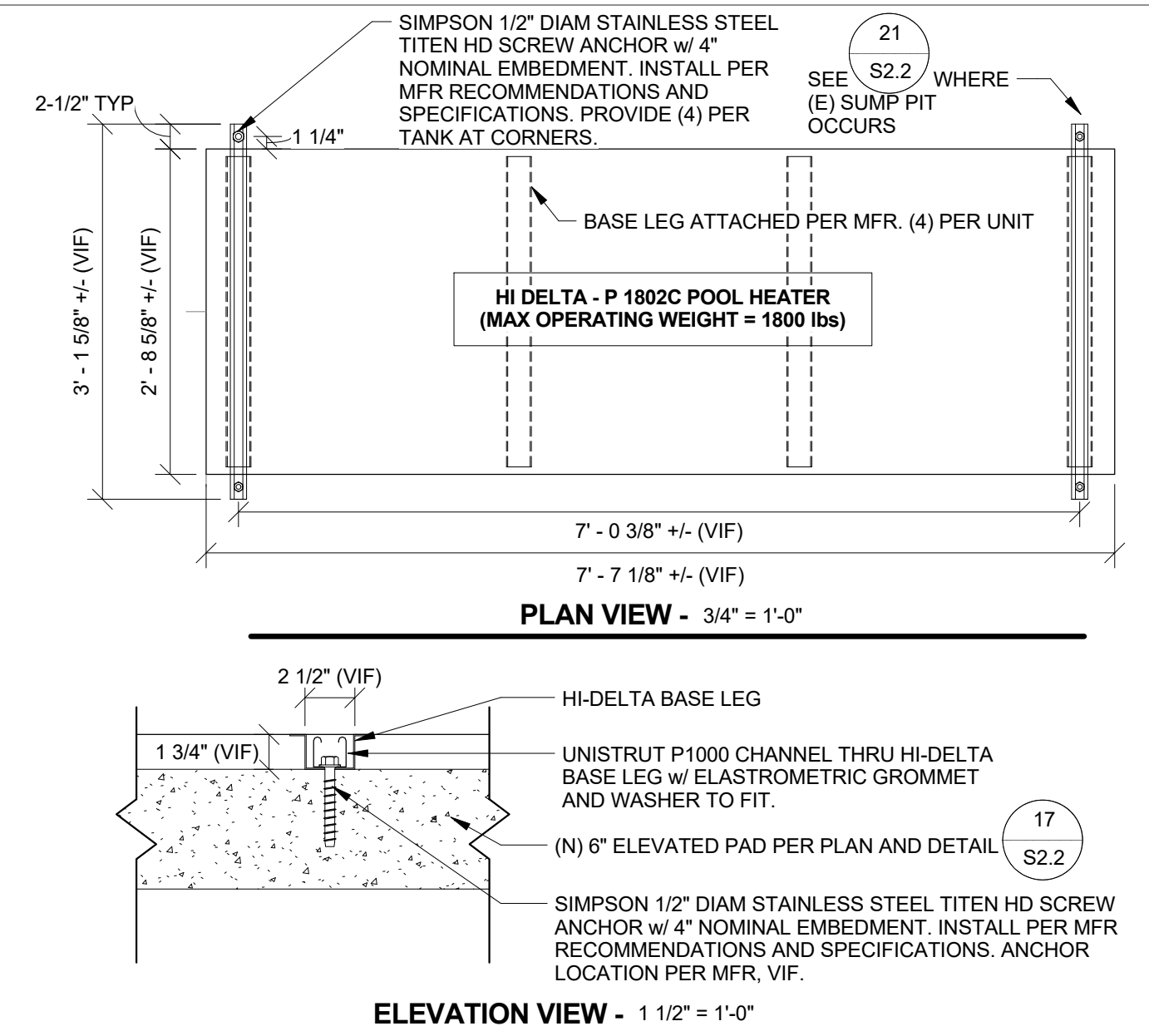
9 HVAC FC-1 BRACKET ANCHORAGE
1" = 1'-0"



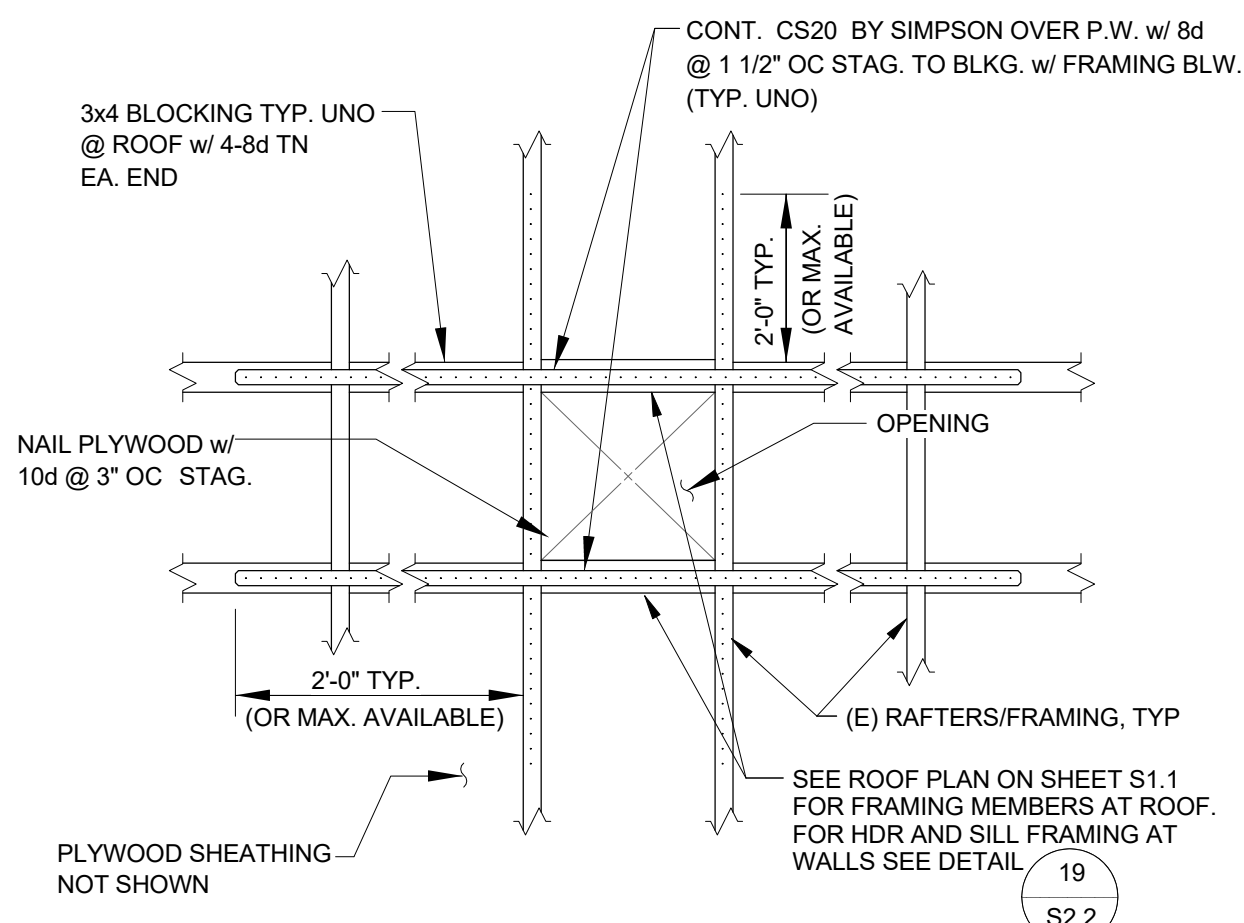
6 NON-STRUCTURAL WALL TO CEILING JOIST
1 1/2" = 1'-0"



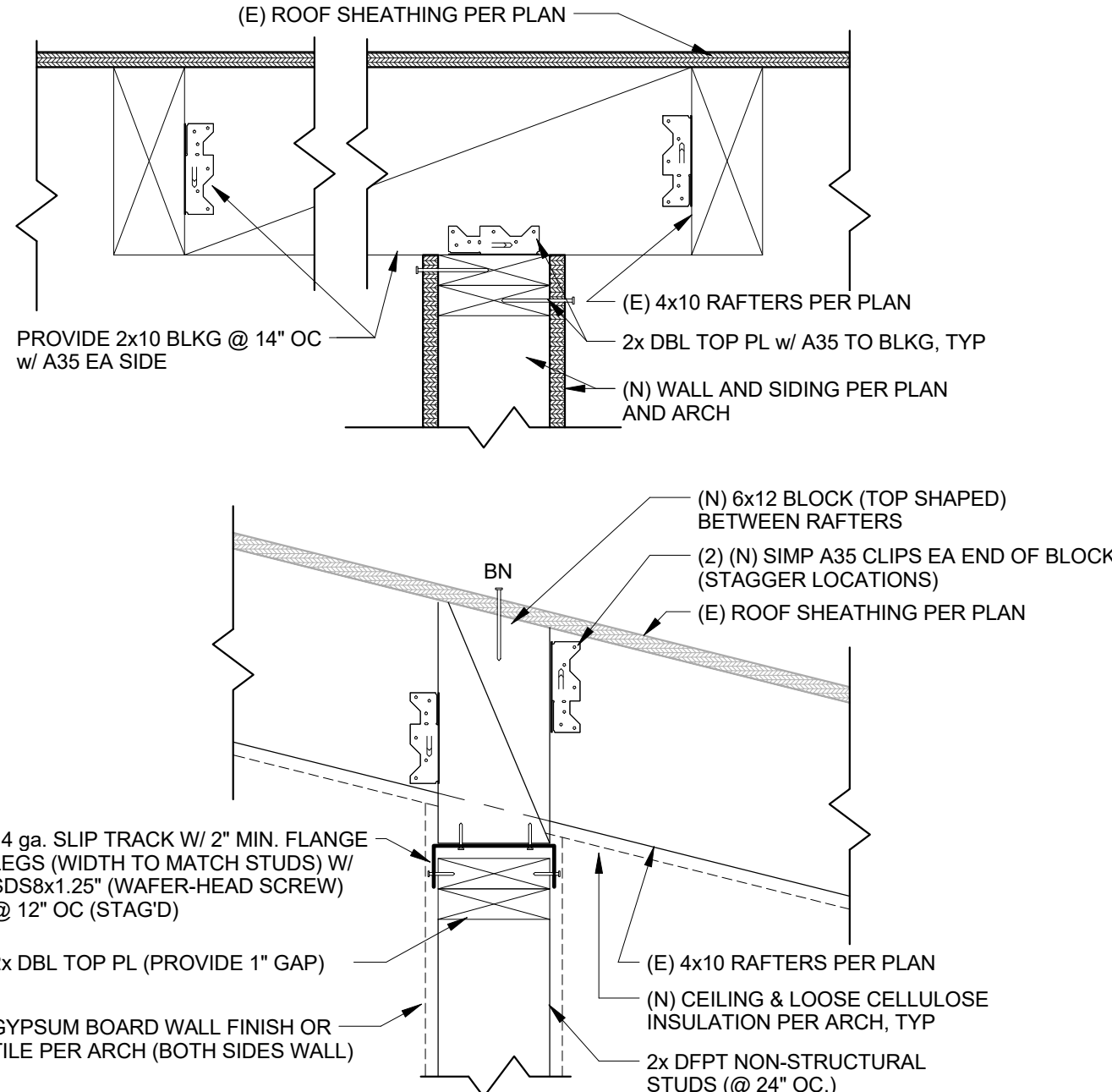
3 HI DELTA HEATER ANCHORAGE *SPECIAL INSPECTION REQUIRED
*VARIES



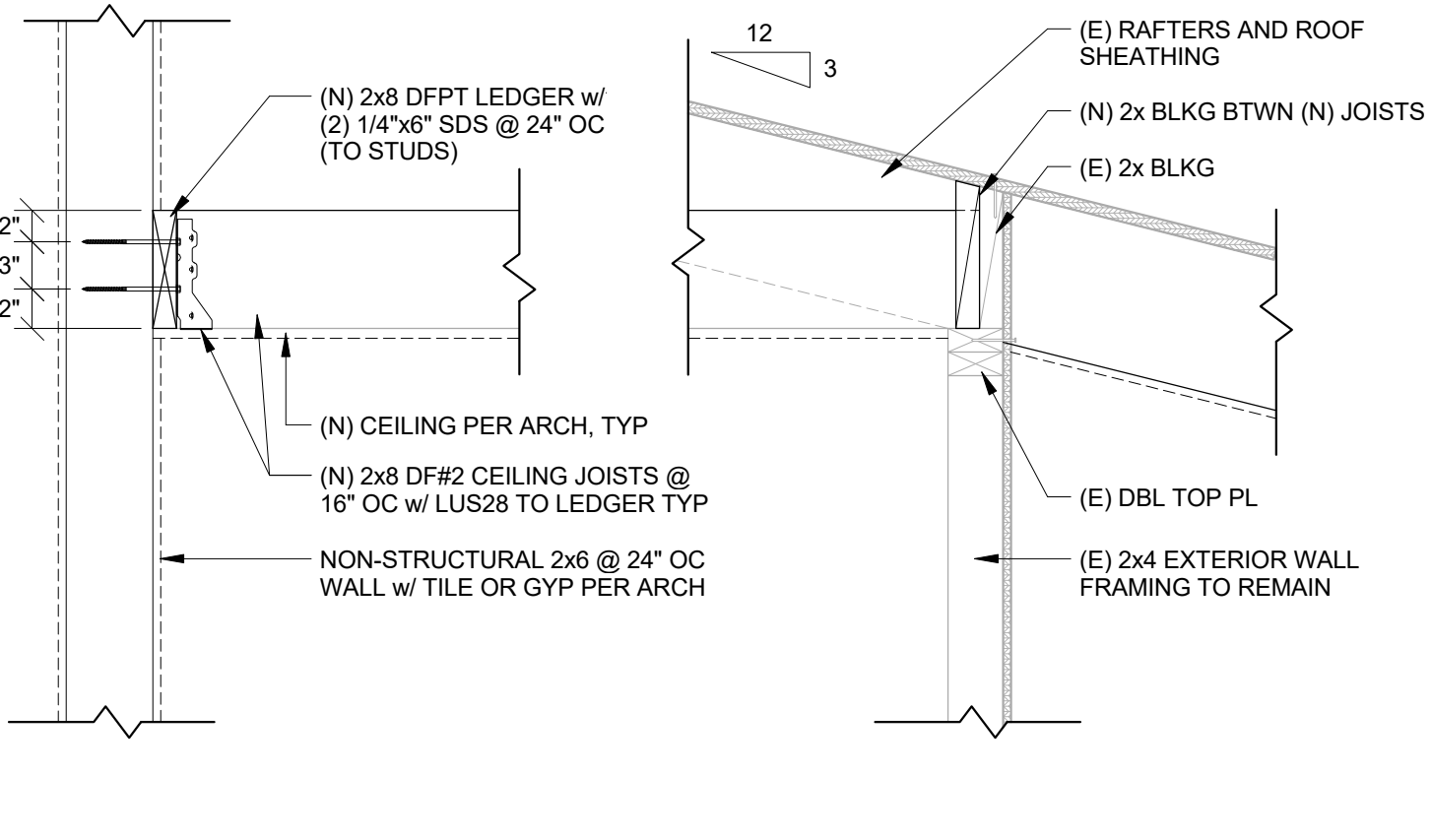
10 TYPICAL WALL AND ROOF OPENING NAILING
3/4" = 1'-0"



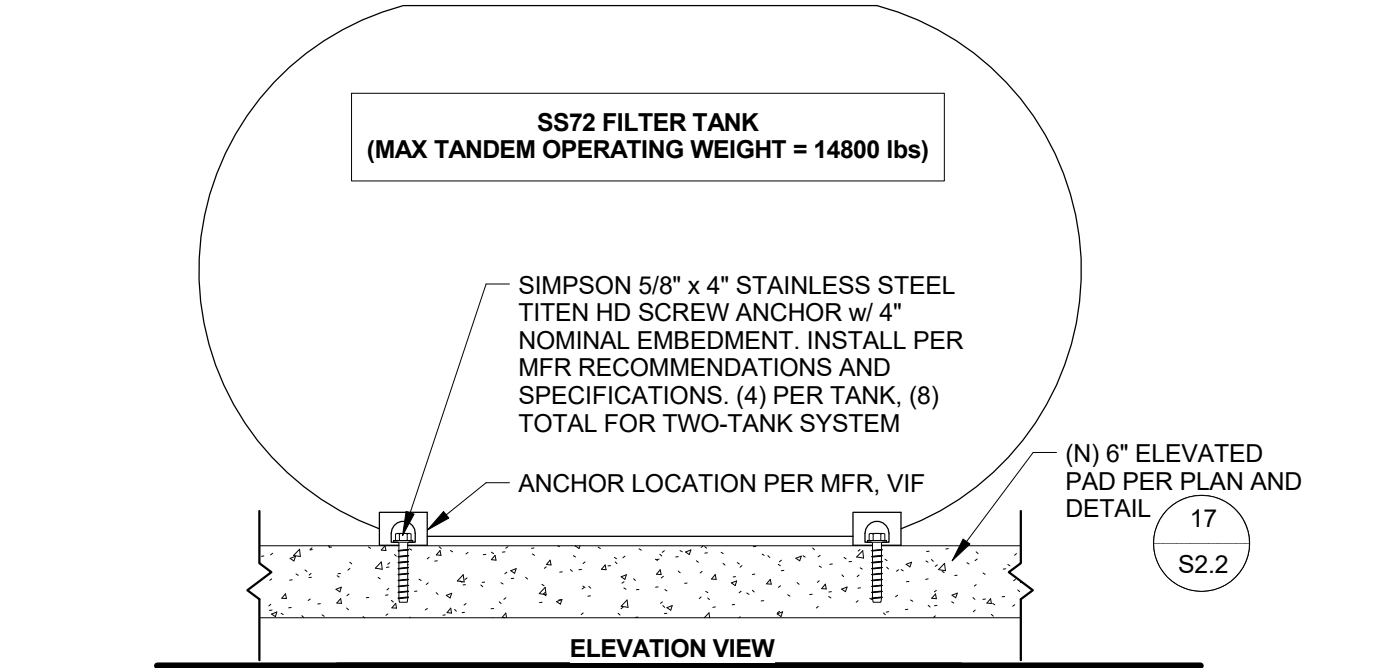
8 NON STRUCTURAL WALL TO ROOF RAFTERS
1 1/2" = 1'-0"



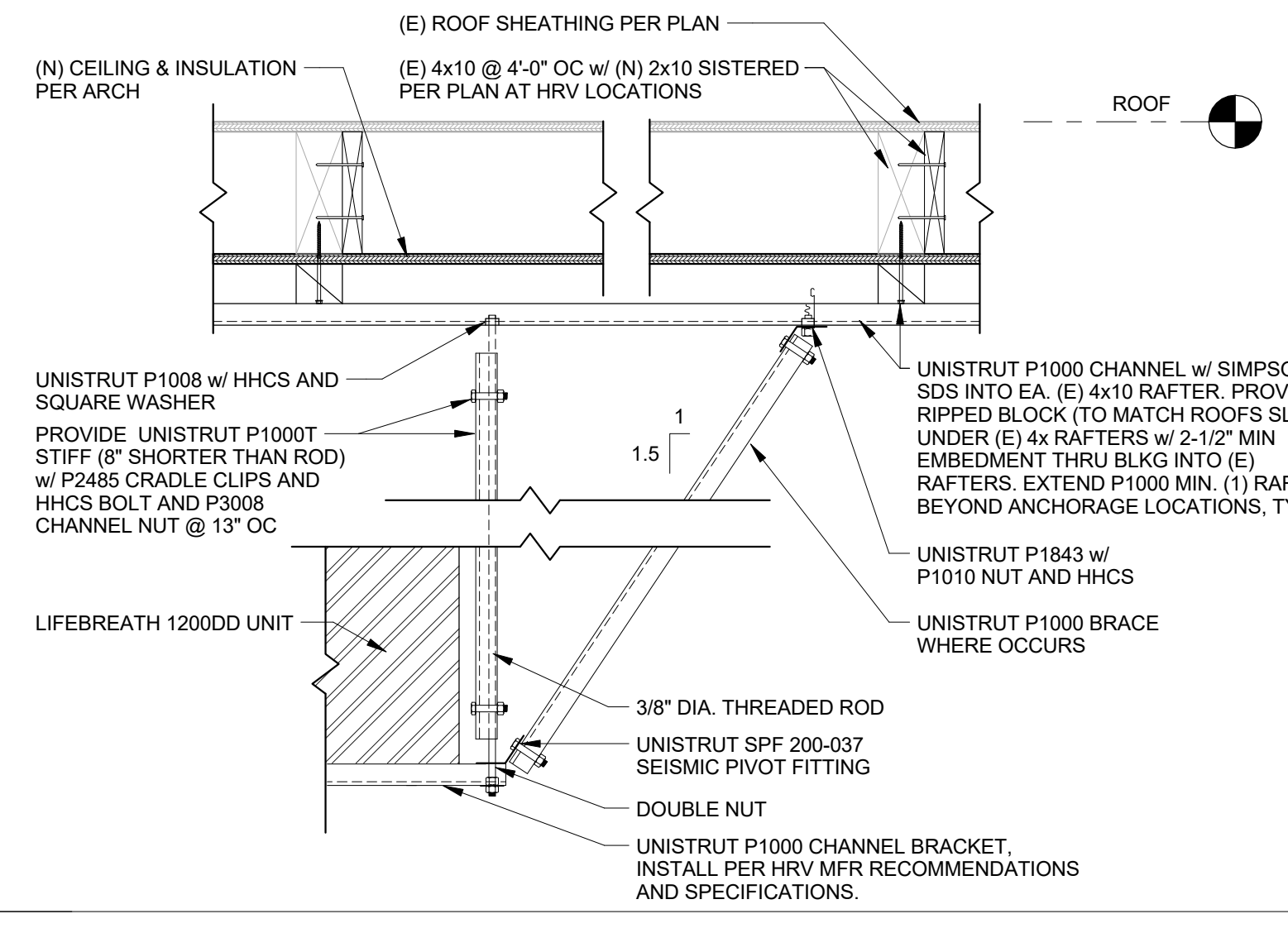
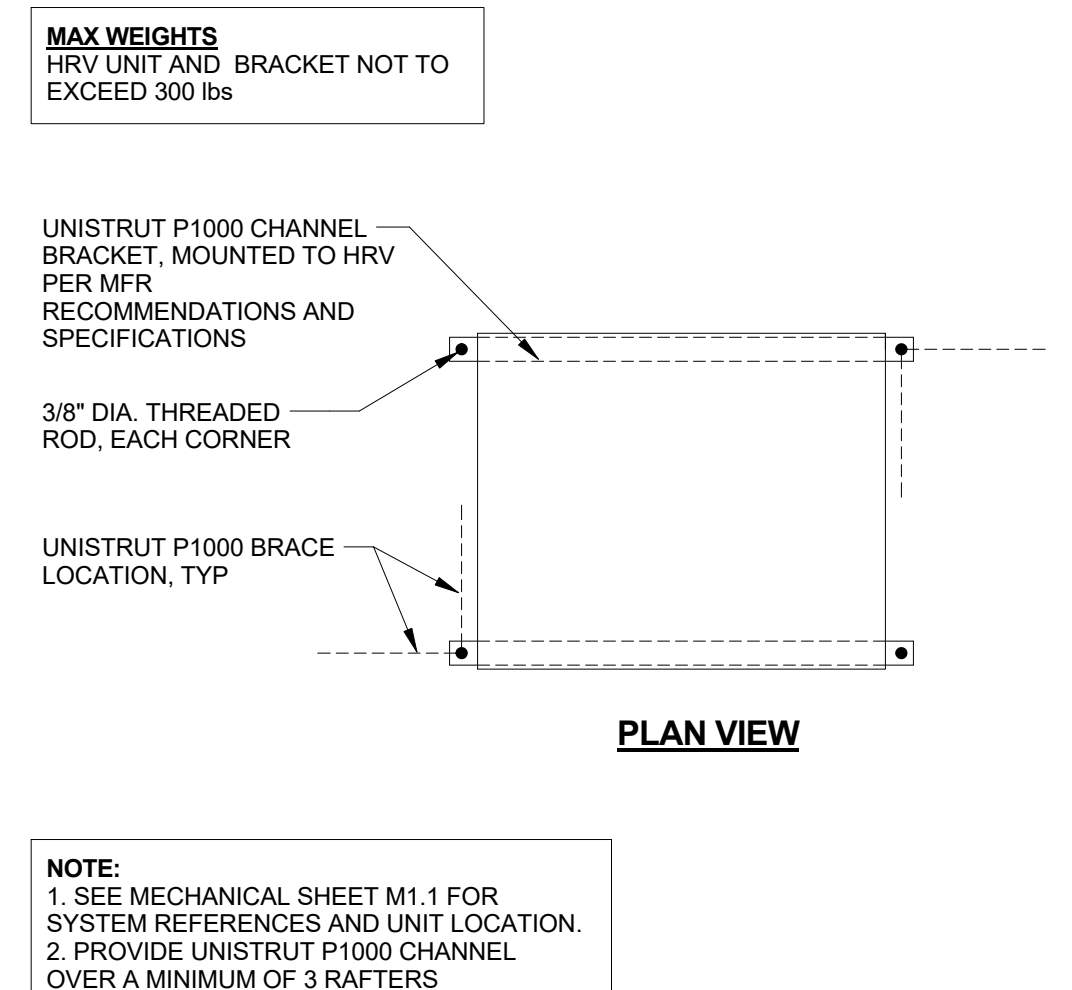
5 CEILING JOIST FRAMING CROSS SECTION
1" = 1'-0"



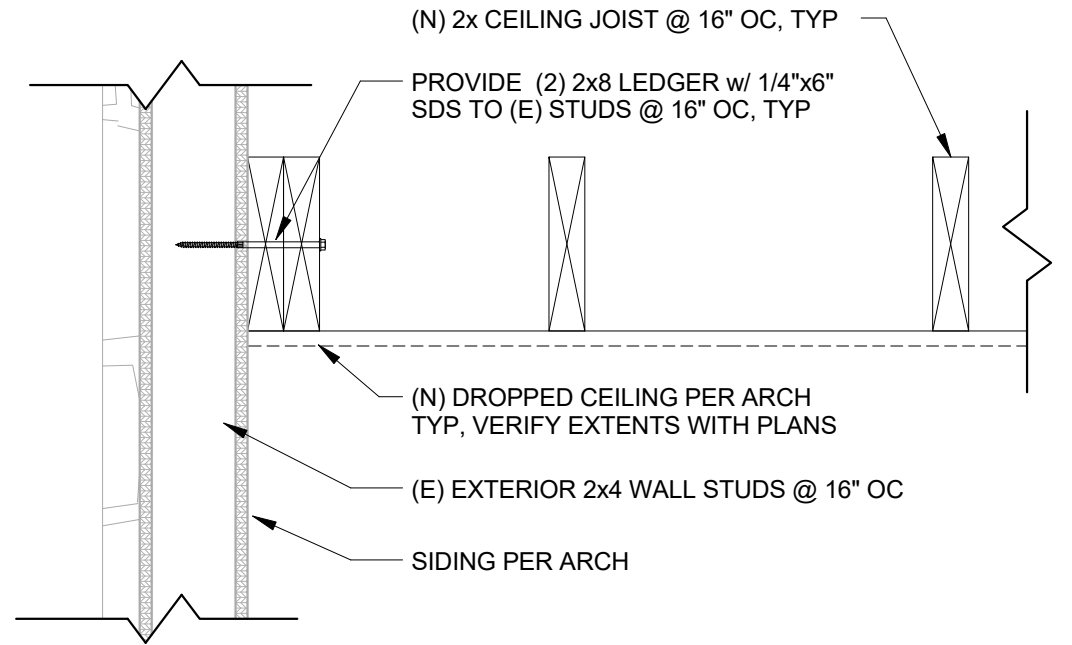
2 SS72 TANK ANCHORAGE *SPECIAL INSPECTION REQUIRED
3/4" = 1'-0"



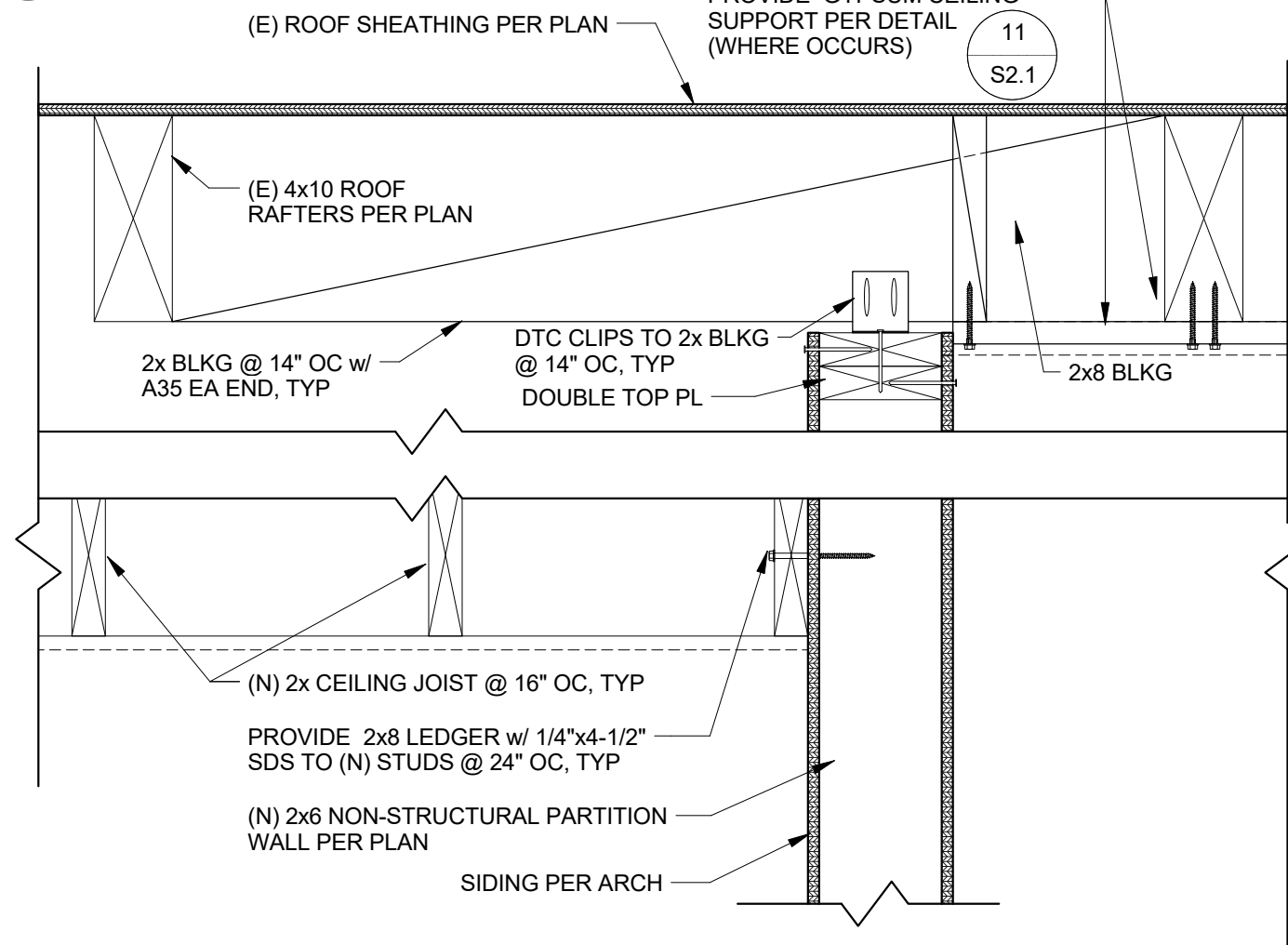
7 HRV ANCHORAGE AT ROOF
1" = 1'-0"



4 ENDWALL CEILING JOIST FRAMING
1 1/2" = 1'-0"



1 INTERIOR WALL CEILING JOIST FRAMING
1 1/2" = 1'-0"



Revisions	
2	Addendum 3 11-9-18

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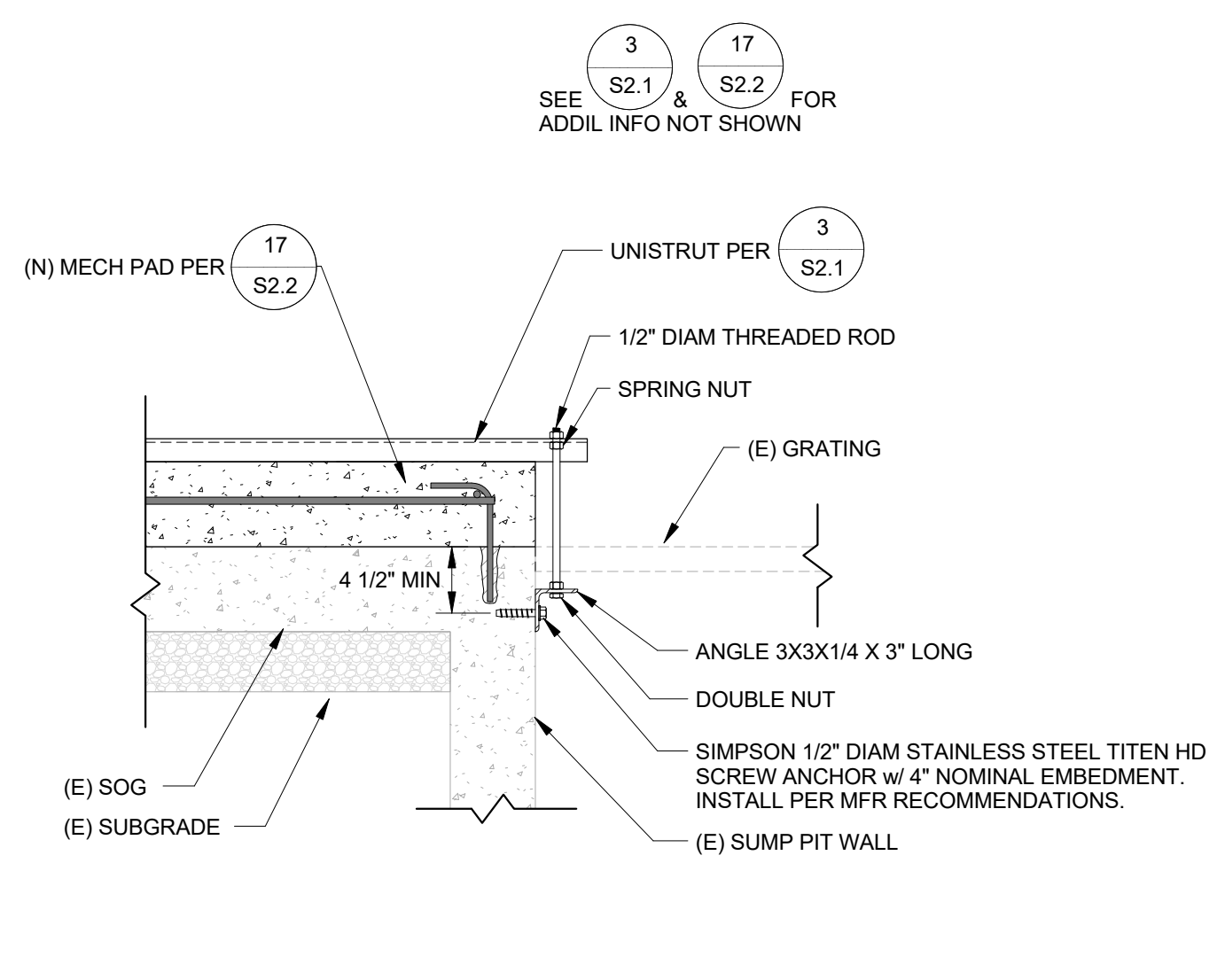


POOL BUILDING RENOVATION
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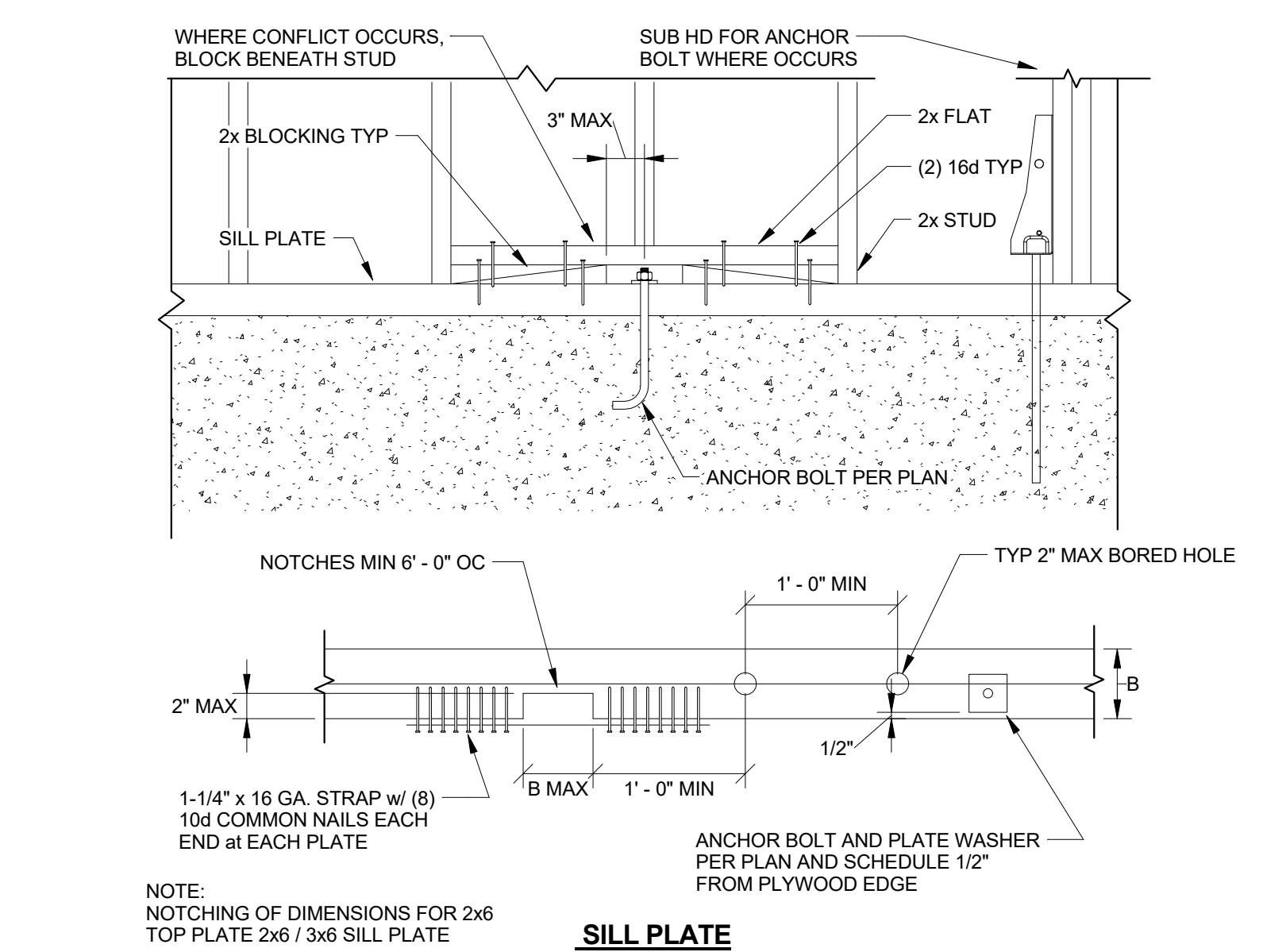
DATE:	10/11/18
SCALE:	As indicated
JOB #:	2035

DETAILS
S2.1

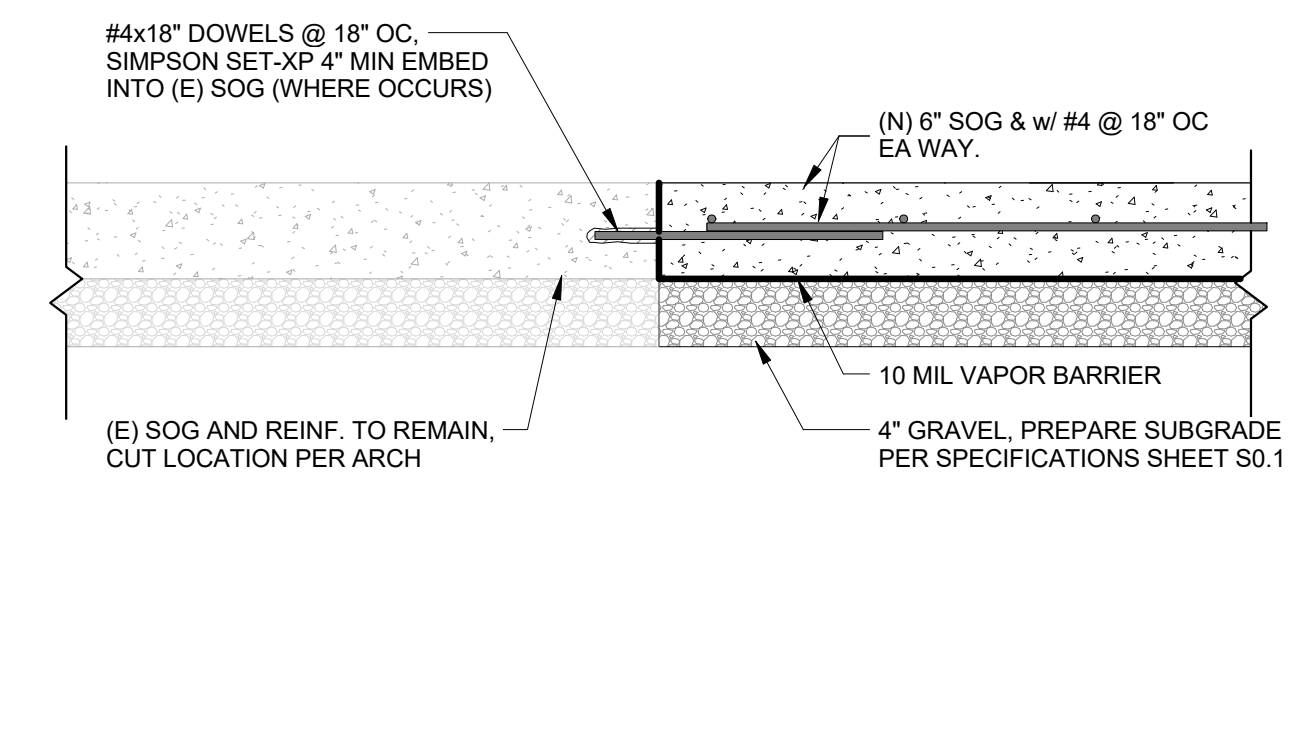
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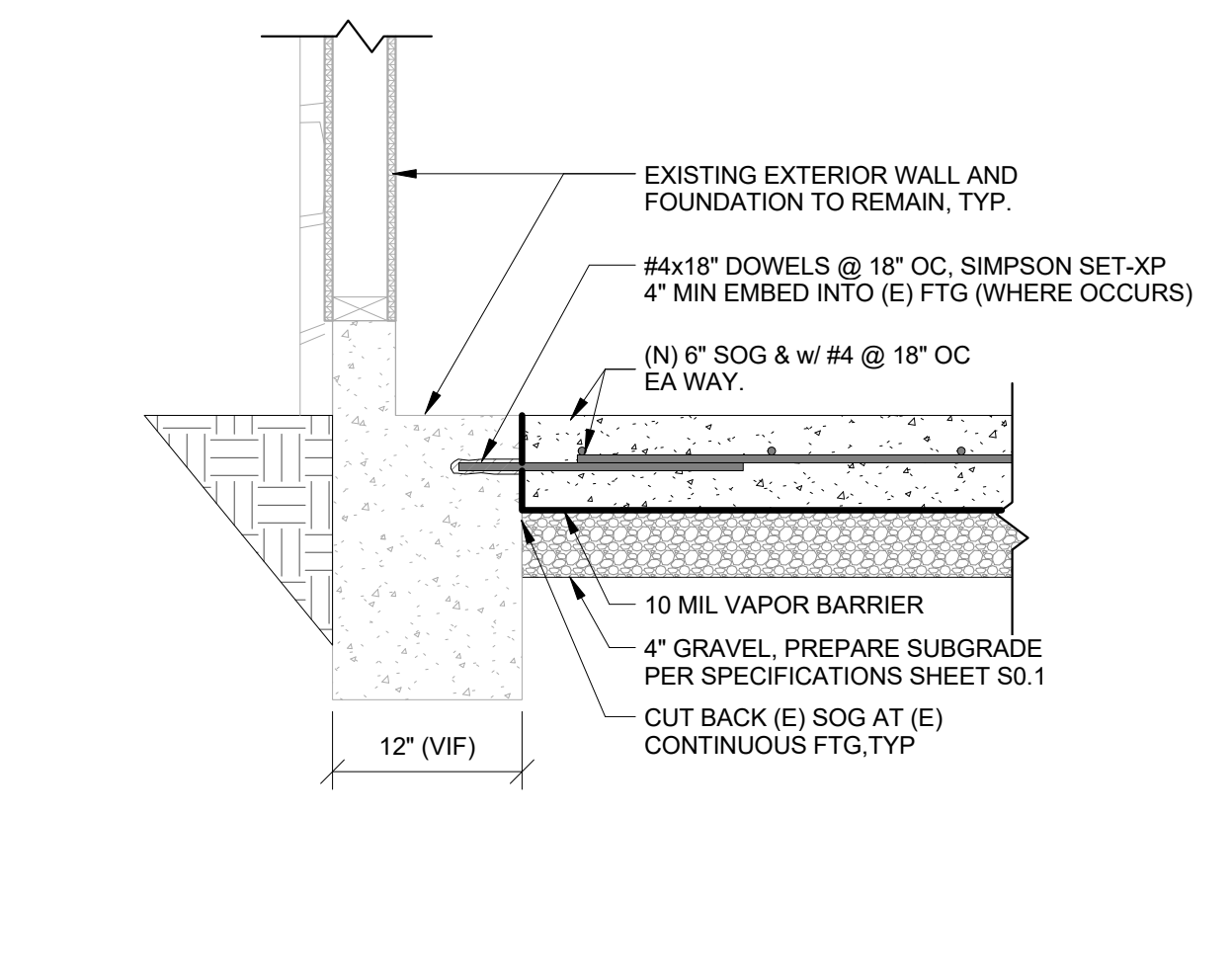
21 BOILER ATTACHMENT AT SUMP PIT
1" = 1'-0"



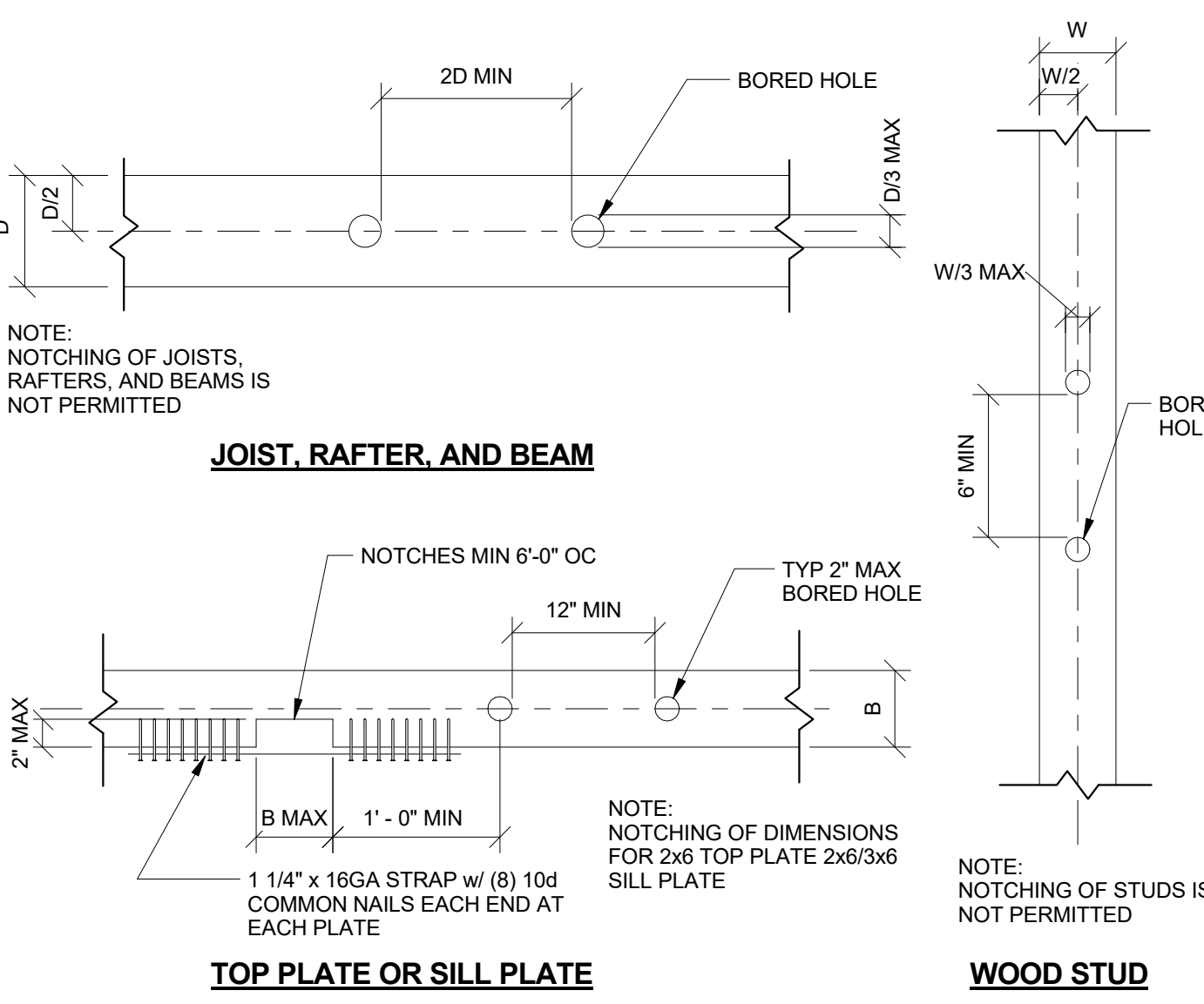
18 MUDSILL DETAIL
1" = 1'-0"



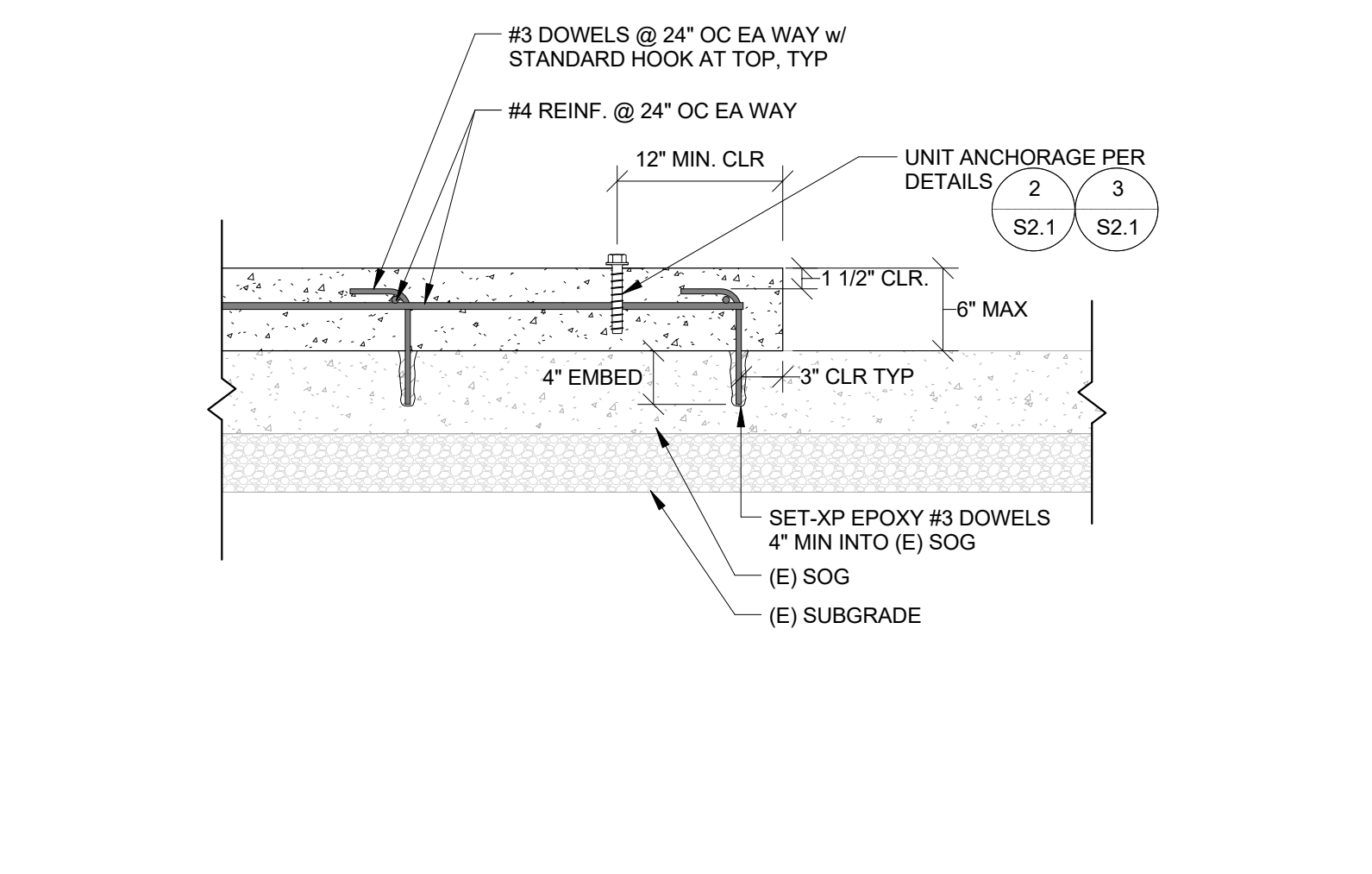
15 NEW SOG TO EXISTING SOG
1" = 1'-0"



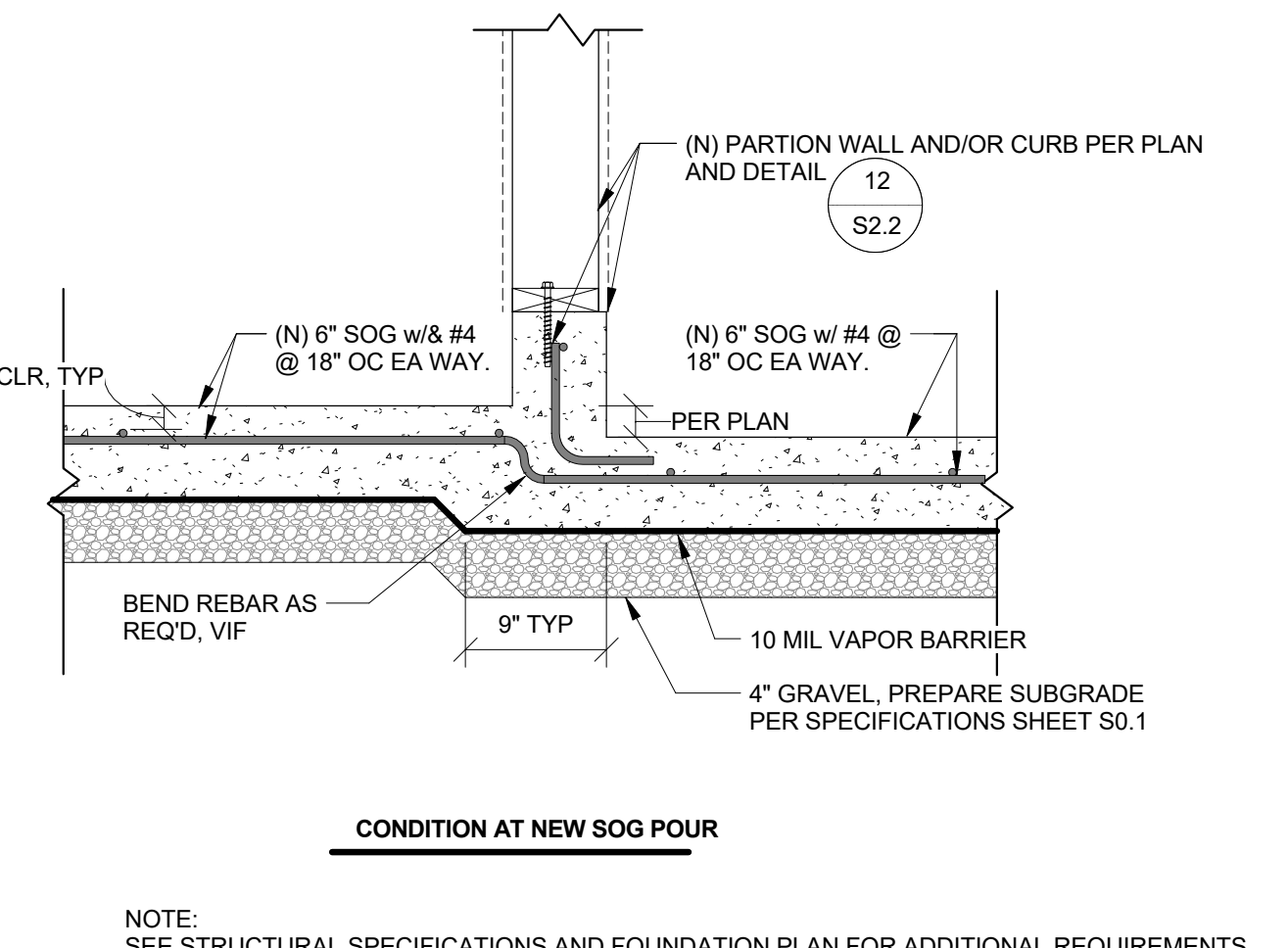
14 NEW SOG TO (E) EXTERIOR WALLS/FDN
1" = 1'-0"



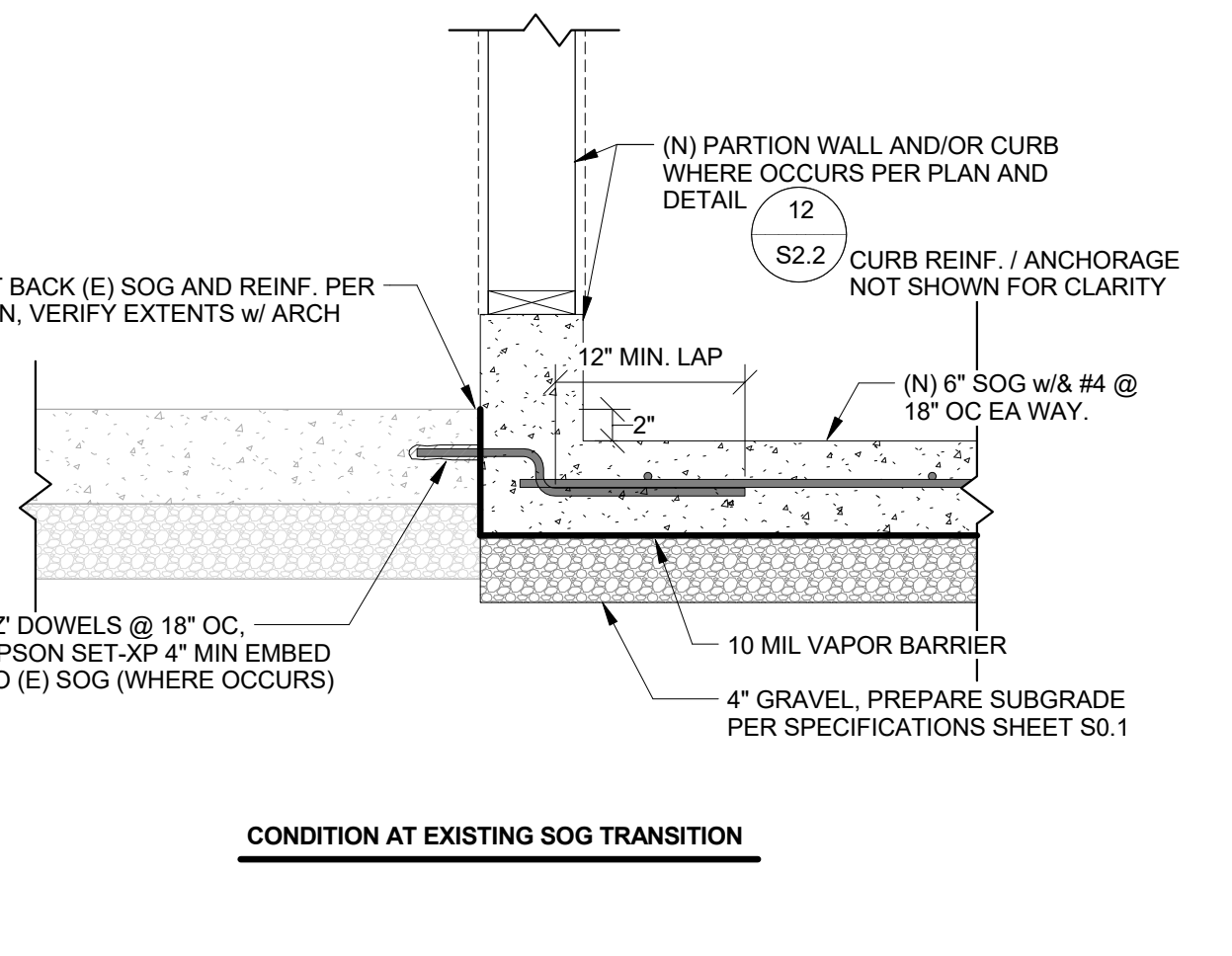
20 NOTCHES IN FRAMING TYP DETAIL
1" = 1'-0"



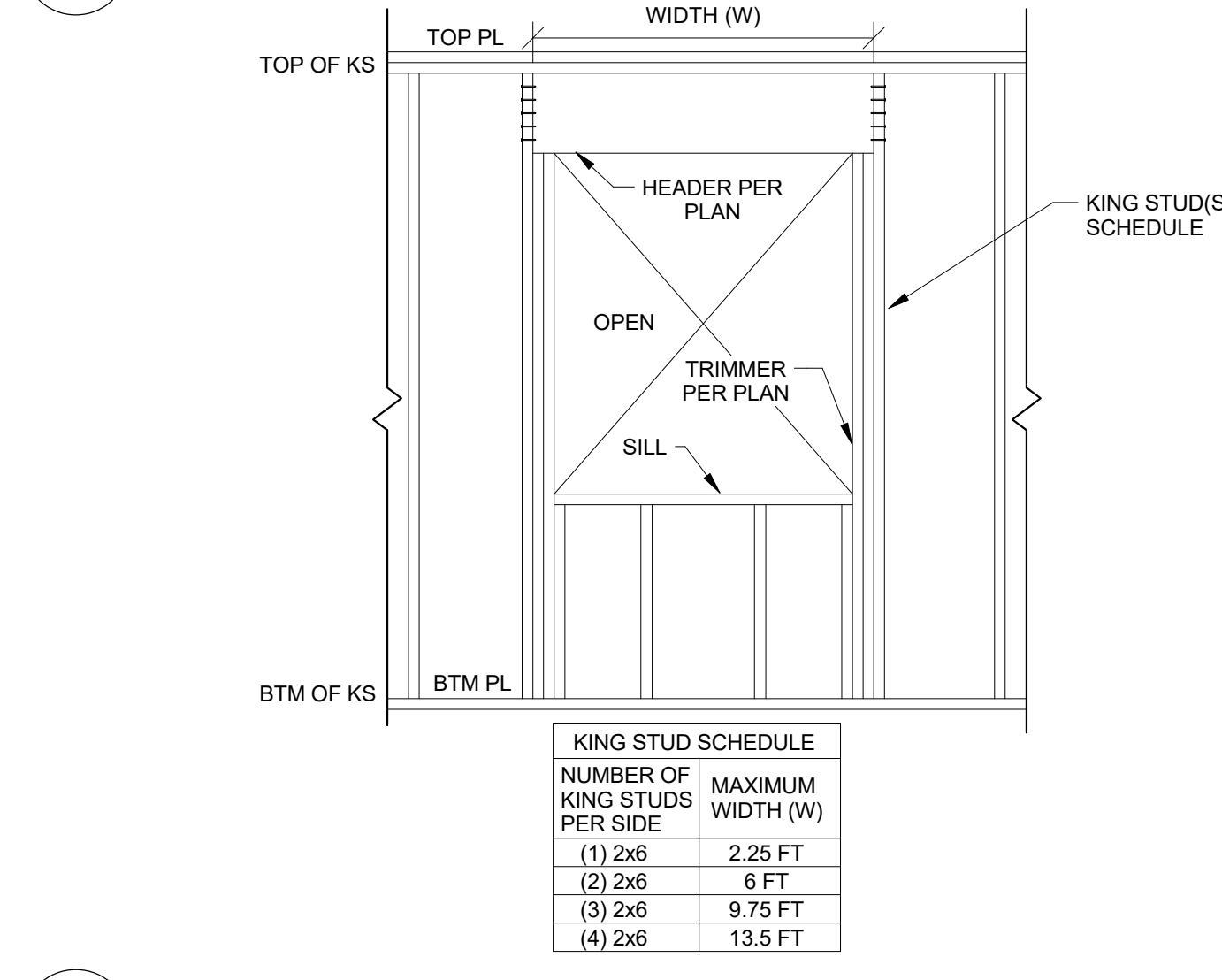
17 ELEVATED PAD SLAB TO EXISTING SOG
1" = 1'-0"



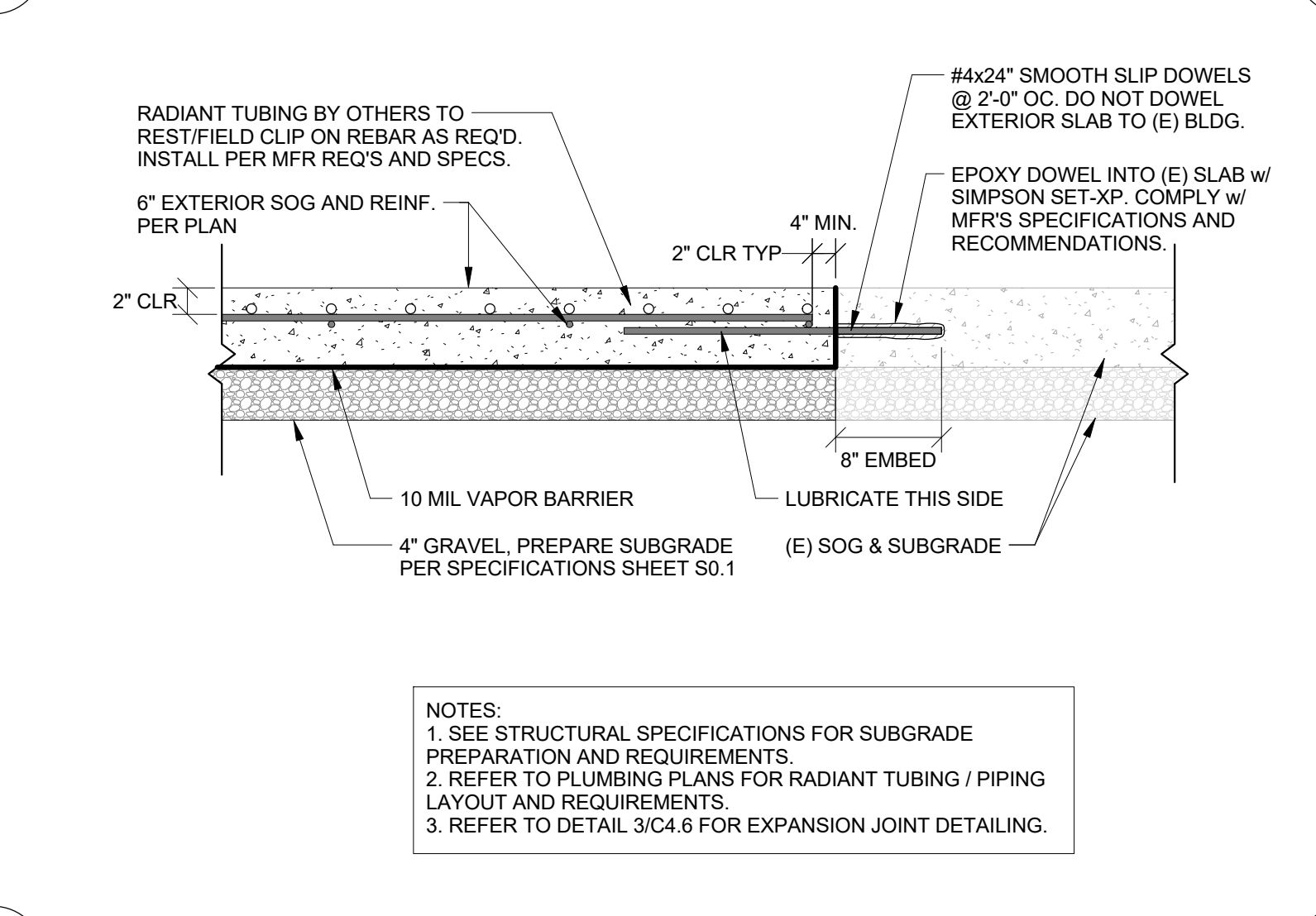
13 RECESSED SLAB DETAILING
1" = 1'-0"



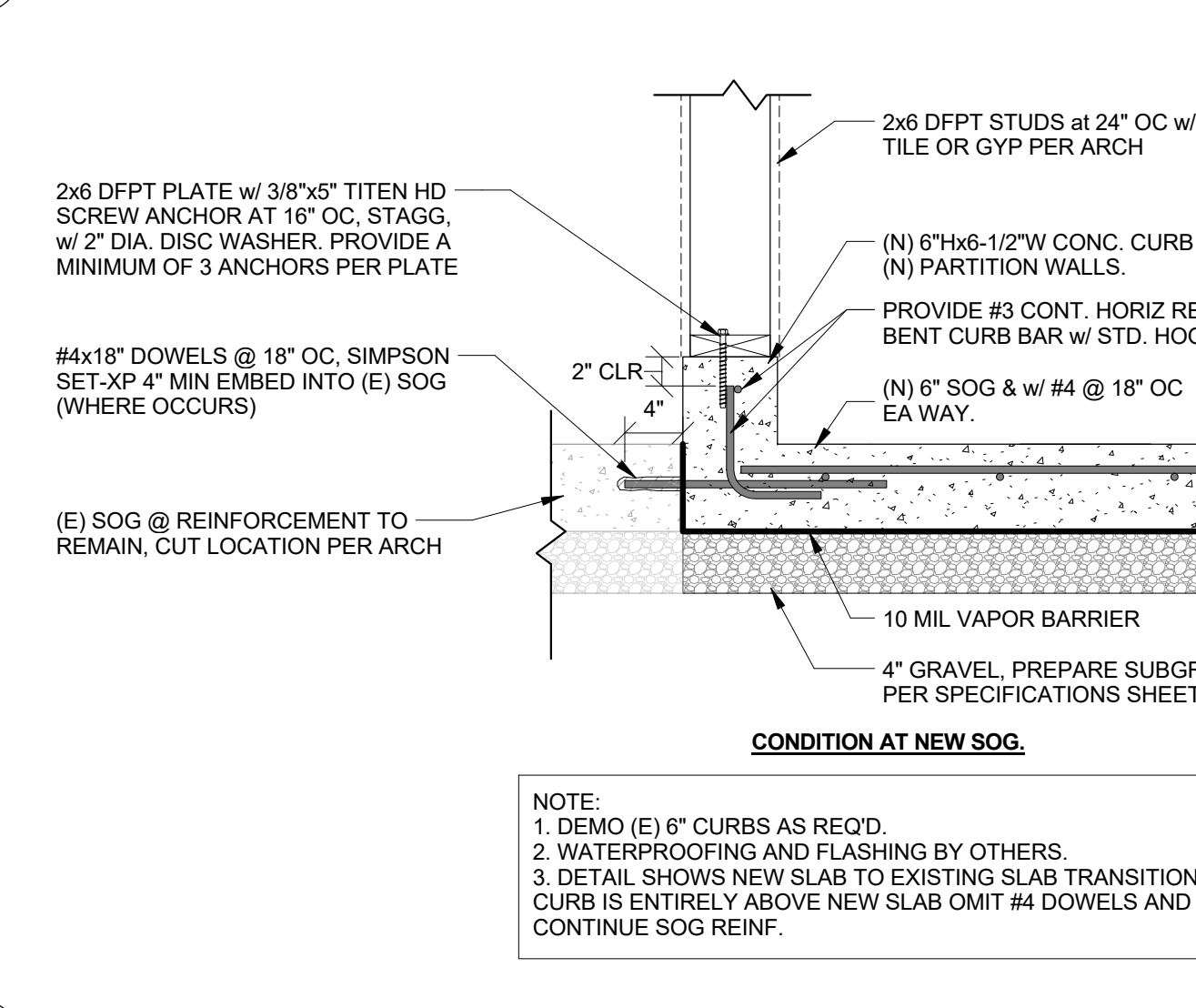
12 NEW PARTITION WALLS WITH CURB
1" = 1'-0"



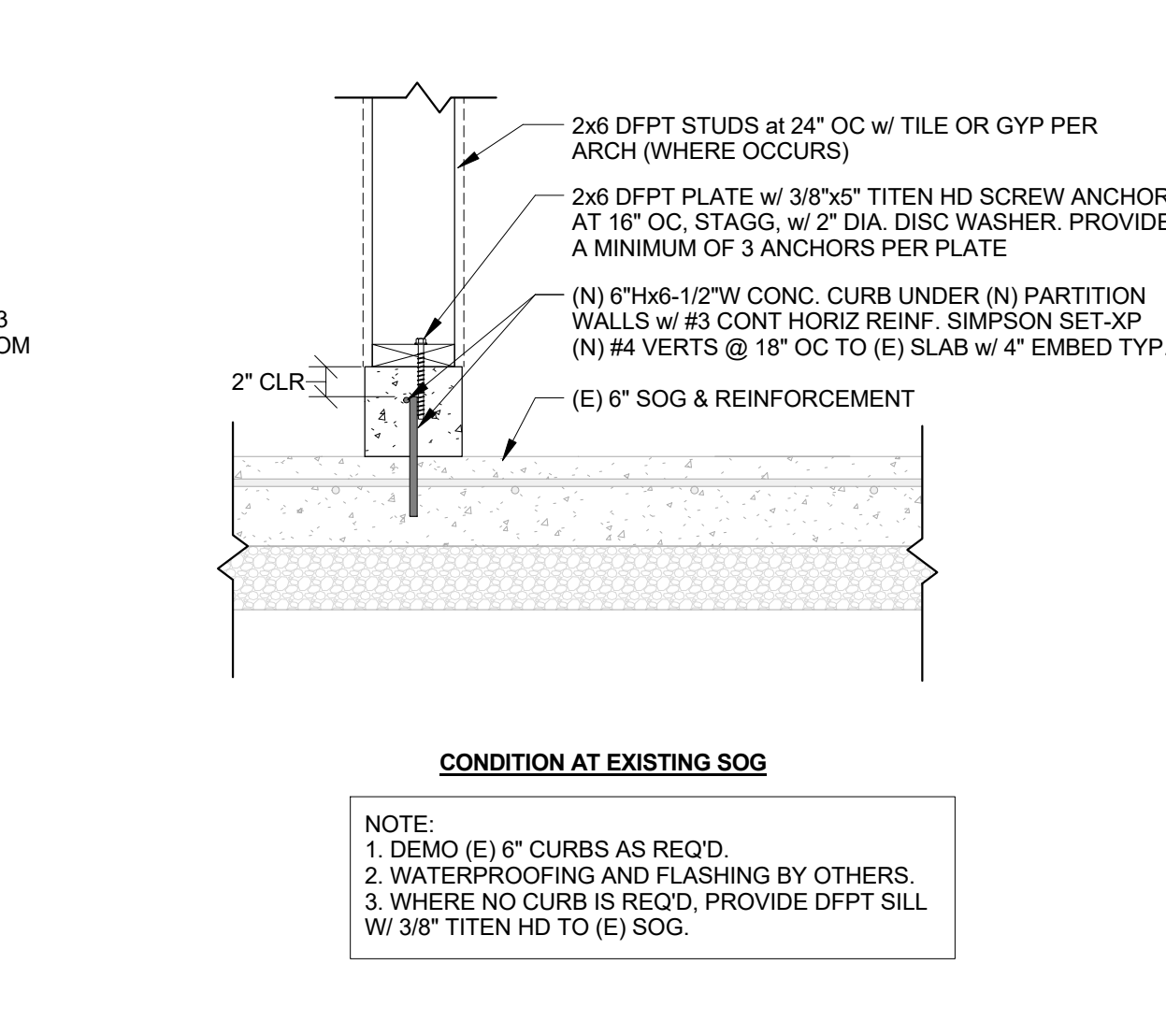
19 HEADER AND KING STUD DETAIL
1" = 1'-0"



16 EXTERIOR SHOWER SLAB ON GRADE
1" = 1'-0"



12 NEW PARTITION WALLS WITH CURB
1" = 1'-0"



12 NEW PARTITION WALLS WITH CURB
1" = 1'-0"



Revisions

2	Addendum 3	11-9-18
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for
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA 95945

DATE: 10/11/18
SCALE: 1" = 1'-0"
JOB #: 2035

DETAILS CONT.
S2.2

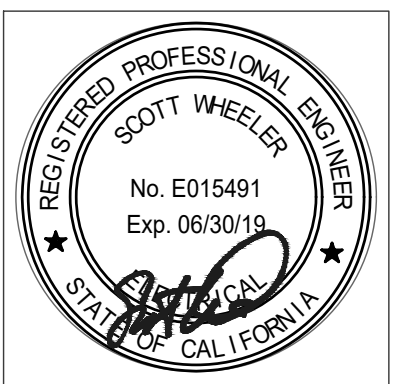
PROJECT: NEVADA UNION POOL HOUSE											
LOCATION: CHECK ROOM											
PANEL - PA											
LOAD SERVED			C. B.			C. B.			LOAD SERVED		
Lig	Rec	Chk Tot	Amp	Pole	1	A	B	C	Amp	Pole	2
REC BOYS LOCKER RM	1.1	20	1	1	1				20	1	1.5
REC GIRLS LOCKER RM	1.1	20	1	3					20	1	1.5
REC CHECK RM	0.5	20	1	5					20	1	1.5
HAND DRYER GIRLS LOCKER RM	1.5	20	1	7					20	1	1.5
HAND DRYER BOYS LOCKER RM	1.5	20	1	9					20	1	1.5
HAND DRYER GIRLS LOCKER RM	1.5	20	1	11					20	1	1.5
(1) FIRE ALARM	0.5	20	1	13					20	1	1.5
HAND DRYER GIRLS LOCKER RM	1.5	20	1	15					20	1	1.5
HAND DRYER GIRLS LOCKER RM	1.5	20	1	17					20	1	1.5
AUTO DOORS	0.8	20	1	19					20	1	1.5
SPARE		20	1	21					20	1	1.5
SPARE		20	1	23					20	1	1.5
				25							
				27							
				29							
				31							
				33							
				35							
				37							
				39							
				41							
TOTALS			2.7	8.9					12.1		
VOLTAGE: 120/208V, 3Ø, 4W			Demand Load			PHASE BALANCE (SECT 1)			ADDITIONAL FEATURES:		
S.C.A.: 10K AIC RMS SYM			125% OF LOAD			A B C					
MOUNTING: SURFACE			CEC 220-140			KVA			%		
BUS SIZE: 125 AMP BUSING			CEC 220-56			AMP			%		
MANS: 125 AMP MAIN BRKR			CEC 620-14								
			CEC 517.73(A)								
			1.0 + 25% Largest								
			CHARGING STATION								
			20.9								
			125%								
			26.1								
			23.6 KVA								
			28.8 KVA								
			80.0 Amps								

PROJECT: NEVADA UNION POOL HOUSE											
LOCATION: MECHANICAL ROOM											
PANEL - PB											
LOAD SERVED			C. B.			C. B.			LOAD SERVED		
Lig	Rec	Chk Tot	Amp	Pole	1	A	B	C	Amp	Pole	2
SPARE		20	1	1					20	1	0.2
FSD	0.2	20	1	3					20	1	1.1
HP1	1.8	20	1	5					20	1	1.1
	1.8	20	1	7					20	1	0.5
BOILER HEATER	1.4	20	1	9					20	1	1.3
(E) BOOSTER PUMP	0.9	20	1	11					20	1	1.3
SPARE		20	1	13					20	1	1.5
SPARE		20	1	15					20	1	1.5
space		20	1	17					20	1	1.5
space		20	1	19					20	1	1.5
space		20	1	21					20	1	1.5
space		20	1	23					20	1	1.5
space		20	1	25					20	1	1.5
space		20	1	27					20	1	1.5
space		20	1	29					20	1	1.5
space		20	1	31					20	1	1.5
space		20	1	33					20	1	1.5
space		20	1	35					20	1	1.5
space		20	1	37					20	1	1.5
space		20	1	39					20	1	1.5
space		20	1	41					20	1	1.5
TOTALS			6.1						44.8		
VOLTAGE: 120/208V, 3Ø, 4W			Demand Load			PHASE BALANCE (SECT 1)			ADDITIONAL FEATURES:		
S.C.A.: 10K AIC RMS SYM			125% OF LOAD			A B C					
MOUNTING: SURFACE			CEC 220-140			KVA			%		
BUS SIZE: 225 AMP BUSING			CEC 220-56			AMP			%		
MANS: 225 AMP MAIN BRKR			CEC 620-14								
			CEC 517.73(A)								
			1.0 + 25% Largest								
			CHARGING STATION								
			26.2								
			125%								
			32.8								
			50.9 KVA								
			61.6 KVA								
			171.2 Amps								

PROJECT: NEVADA UNION POOL HOUSE											
LOCATION: CHECK ROOM											
PANEL - PC											
LOAD SERVED			C. B.			C. B.			LOAD SERVED		
Lig	Rec	Chk Tot	Amp	Pole	1	A	B	C	Amp	Pole	2
(1) (E) POOL LTG		20	1	1					20	1	
(1) (E) POOL LTG		20	1	3					20	1	
(1) (E) POOL RECEPTACLES		20	1	5					20	1	
(N) INTERIOR LTG	0.8	20	1	7					20	1	
(N) INTERIOR LTG	0.5	20	1	9					20	1	
(N) EXTERIOR LTG	0.3	20	1	11					20	1	
				13							
				15							
				17							
				19							
				21							
				23							
				25							
				27							
				29							
				31							
				33							
				35							
				37							
				39							
				41							
TOTALS			1.4						7.0		
VOLTAGE: 120/208V, 3Ø, 4W			Demand Load			PHASE BALANCE (SECT 1)			ADDITIONAL FEATURES:		
S.C.A.: 10K AIC RMS SYM			125% OF LOAD			A B C					
MOUNTING: SURFACE			CEC 220-140			KVA			%		
BUS SIZE: 100 AMP BUSING			CEC 220-56			AMP			%		
MANS: 100 AMP MAIN BRKR			CEC 620-14								
			CEC 517.73(A)								
			1.0 + 25% Largest								
			CHARGING STATION								
			1.4								
			1.8 KVA								
			5.0 Amps								

LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER & CATALOG NUMBER	LAMP QUANTITY / LAMP	WATTAGE	VOLTAGE	DESCRIPTION	
F1	SELUX SURVIVOR SURFL-2B25-35-LF-BF-04-WH-UNV-DIM OR EQUAL; DESIGN PLAN MONITOR II, KENALL MILLENNIUM STRETCH, NEW STAR VICTORY WIDE	LED 3500K 5,148 LUMENS	54	120	1' X 4' SURFACE MOUNTED LED FIXTURE. FIXTURE SHALL BE AN ARCHITECTURAL, HIGH ABUSE FIXTURE WITH MARINE GRADE ALUMINUM HOUSING AND END CAPS. LENS SHALL BE UV STABILIZED, HIGH-IMPACT PRISMATIC POLYCARBONATE. WET LISTED.	
F2	H.E. WILLIAMS LIGHTING 75R-8-L60/835-DRV-UNV OR EQUAL BY LITHONIA, METALUX OR COLUMBIA	LED 3500K 6,500 LUMENS	43	120	8' LONG SURFACE LED STRIP FIXTURE WITH ROUNDED LENS.	
F3	JUNO SLIMFORM JFSQ-7N 10LM-35K-90CR1-MVOLTZT-WH OR EQUAL	LED 3500K 1,000 LUMENS	10	120	LOW PROFILE, 7" SQUARE, SURFACE MOUNTED LED DOWNLIGHT	
F4	SURE-LITES SEL17 OR EQUAL	LED	120	120	EMERGENCY WALL MOUNTED LIGHT FIXTURE WITH HIGH IMPACT RESIN HOUSING AND MAINTENANCE FREE 90 MINUTE NI-CAD BATTERY.	
SF1	KENALL MR13EL-PP-DB-20L35K-DV OR EQUAL	LED 3500K 1,682 LUMENS	24	120	ARCHITECTURAL, HIGH-ABUSE, ROUND 13" WALL MOUNTED LED FIXTURE WITH HIGH IMPACT, POLYCARB LENS, AND MARINE GRADE ALUMINUM HOUSING.	

PROJECT GENERAL NOTES	PROJECT GENERAL NOTES
<p>1. THE EXISTING CONDITIONS INDICATED IN THIS DRAWING SET WERE DEVELOPED FROM VARIOUS SOURCES WHICH WERE NOT ALL FIELD VERIFIED AND NOT ALL CONDITIONS ARE SHOWN. LOCATIONS, ROUTING, ELEVATIONS, SIZES, ETC. ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.</p> <p>2. DRAWINGS INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. FINAL LOCATIONS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS.</p> <p>3. THE CONTRACTOR SHALL VISIT THE JOBSITE AND VERIFY ALL EXISTING CONDITIONS BEFORE CONSTRUCTION AND SHALL INCLUDE IN THE BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND ALL APPLICABLE CODES.</p> <p>4. CONTRACTOR SHALL REMOVE ALL LEFT OVER CONDUIT, WIRE, SCRAPS, ETC. AND LEAVE PREMISES CLEAN AND FREE OF TRASH OR DEBRIS RESULTING FROM THEIR WORK.</p> <p>5. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL DEVICES AND FIXTURES UON.</p> <p>6. RECONNECT EXISTING DEVICES WHOSE CIRCUITS HAVE BEEN INTERRUPTED BY DEMOLITION BY PROVIDING NEW CONNECTIONS TO ANOTHER EXISTING DEVICE OR PANEL. VERIFY CIRCUIT LOADING ON EXISTING CIRCUIT.</p> <p>7. WHEN A DEVICE IS REMOVED FROM AN EXISTING WALL WHICH WILL REMAIN, PATCH WALL TO MATCH EXISTING OR NEW FINISH.</p> <p>8. MOUNTING HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO THE CENTERLINE OF DEVICES, COORDINATE WITH ARCHITECTURAL DRAWINGS.</p> <p>9. CLEAN EXISTING LIGHTING FIXTURES WITHIN THE PROJECT AREA AS PART OF THIS PROJECT. INCLUDE NEW LAMPS WHERE COLOR INCONSISTENCIES EXIST, OR WHERE LAMPS ARE BURNED OUT/NOT INSTALLED.</p> <p>10. PROVIDE INDIVIDUAL GFCI RECEPTACLES AT EACH LOCATION SHOWN. DO NOT USE FEED-THRU GFCI TYPE RECEPTACLES. LOCATE RECEPTACLE AT END OF A BRANCH CIRCUIT WIRE.</p> <p>11. WHERE RECEPTACLES ARE LOCATED OUTSIDE OR IN WET/DAMP LOCATIONS PROVIDE WEATHER RESISTANT TYPE, UON.</p> <p>12. CONDUIT SIZE SHALL BE 0.75" MINIMUM, U.O.N.</p> <p>13. ALL CONDUCTORS ON THIS PROJECT SHALL BE COPPER.</p> <p>14. FEEDER AND BRANCH CIRCUIT HOMERUNS SHALL BE INSTALLED IN CONDUIT. MC TYPE CABLE SHALL NOT BE USED FOR ANY HOMERUNS ON THIS PROJECT.</p> <p>15. INSTALL AND CONNECT A CODE SIZED INSULATED OR BARE COPPER GROUNDING CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDERS.</p> <p>16. ALL DEVICES SHALL HAVE TYPE ON TAPE LABELS INDICATING THE PANELBOARD AND CIRCUIT SERVING EACH DEVICE, TYPICAL OF ALL DEVICES INCLUDED ON THIS PROJECT.</p> <p>17. PROVIDE INSULATING BUSHINGS OR INSULATED THROAT ON THE ENDS OF ALL EMPTY CONDUIT SLEEVES AND INSTALL A POLYETHYLENE PULLING ROPE.</p> <p>18. WHERE CIRCUITS ARE SHOWN ON THE DRAWINGS WITH HOMERUNS THAT SHARE NEUTRAL CONDUCTORS THE CONTRACTOR SHALL PROVIDE HANDLE TIES BETWEEN ALL BRANCH CIRCUIT BREAKER LOADS WHICH SHARE A NEUTRAL.</p> <p>19. PROVIDE DEDICATED CONDUIT/PATHWAYS FOR ALL 0-10v LIGHTING CONTROL SIGNALS SEPARATE FROM ALL LINE VOLTAGE RACEWAY.</p> <p>20. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER-PROTECTED AND LISTED FOR EXTERIOR USE.</p> <p>21. PROVIDE TYPE WRITTEN PANEL SCHEDULES UPDATED TO INCLUDE ALL FIELD MODIFICATIONS AND SCOPE ITEMS ASSOCIATED WITH THIS PROJECT.</p> <p>22. PROVIDE ENGRAVED NAMEPLATES FOR NEW ELECTRICAL BOARDS, DISCONNECTS, AND SWITCHGEAR OR WHERE INDICATED.</p> <p>23. ALL CIRCUIT BREAKERS SERVING THE FIRE ALARM CONTROL PANEL AND FIRE ALARM SYSTEM COMPONENTS SHALL HAVE LOCKABLE HANDLES, AND PAINTED RED FOR EASY IDENTIFICATION.</p> <p>24. ALL CONDUIT, OUTLET BOXES, AND RACEWAY PENETRATIONS THROUGH FIRE RATED WALLS OR FLOOR ASSEMBLIES SHALL BE A UL LISTED ASSEMBLY THAT PROTECTS THE RATED ASSEMBLY. INCLUDE FIRE RATED DEVICE BOX ASSEMBLIES WHEN REQUIRED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL RATED WALLS AND FLOORS AS APPLICABLE.</p>	<p>25. PROVIDE A REMOTE TEST/RESET STATION FOR EACH SMOKE DUCT DETECTOR NOT ACCESSIBLE FROM THE ROOF OR CEILING SPACE. LOCATE STATION ON THE WALLS OR LOW CEILING BELOW THE DUCT DETECTOR AND LABEL WITH THE HVAC UNITS IDENTIFICATION NUMBER. INCLUDE AN ADDRESSABLE FA CONTROL MODULE FOR MONITORING.</p> <p>26. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC).</p> <p>27. REQUIRED ELECTRICAL EQUIPMENT WORKING SPACE DEPTH SHALL NOT BE LESS THAN THAT INDICATED IN CEC TABLE 110.26. THE WIDTH OF THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT SHALL BE THE WIDTH OF THE EQUIPMENT OR 30", WHICHEVER IS GREATER. THIS REQUIREMENT ALSO APPLIES TO DISCONNECT SWITCHES.</p> <p>28. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES AND BEAR THEIR LABEL, OR ETL.</p> <p>29. CONTRACTOR SHALL PROVIDE ARC FLASH LABELS FOR ALL ELECTRICAL EQUIPMENT WITHIN THE SCOPE OF THIS PROJECT. THESE LABELS SHALL BE GENERATED BY THE CONTRACTOR FROM THE POWER SYSTEM STUDY AND SUBMITTED WITH THE POWER SYSTEM STUDY SUBMITTAL FOR ENGINEER REVIEW AND APPROVAL. THIS INCLUDES ALL FIELD MARKING OF KAIC VALUES ON EXISTING OR NEW BOARDS PER THE CEC.</p> <p>30. WIRING SPACE IN PANELBOARDS, DISTRIBUTION PANES AND SWITCHBOARDS SHALL BE DEDICATED TO CONDUCTORS TERMINATED IN THAT ENCLOSURE. PANELBOARDS, DISTRIBUTION PANELS AND SWITCHBOARDS SHALL NOT BE USED AS PULL AND/OR SPLICE BOXES FOR CONDUCTORS THAT TERMINATE IN OTHER ENCLOSURES. DO NOT SPLICE CONDUCTORS IN EQUIPMENT.</p> <p>31. NEW CIRCUIT BREAKERS INSTALLED IN EXISTING EQUIPMENT SHALL BE PROVIDED TO MATCH THE KAIC RATINGS AND THE MANUFACTURER OF THE EXISTING.</p> <p>32. PROVIDE CLEAR SIGNAGE ON ALL ELECTRICAL EQUIPMENT PER CEC TO INDICATE THE ARC FLASH HAZARD WARNING, AND THE MAXIMUM AVAILABLE FAULT CURRENT. WHEN MODIFICATIONS OCCUR THAT AFFECT THE MAXIMUM FAULT CURRENT THE CONTRACTOR SHALL RECALCULATE AS NECESSARY AND REMARK THE EQUIPMENT.</p> <p>33. REFER TO MECHANICAL & PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT. PROVIDE ALL LINE VOLTAGE AND LOW VOLTAGE WIRING, CONTROL WIRING, INTERLOCK CABLING, AND CONDUIT REQUIRED.</p> <p>34. PROVIDE A DISCONNECTING MEANS AT ALL MOTORS, WHETHER INDICATED ON THE PLANS OR NOT.</p> <p>35. PROVIDE FUSES IN DISCONNECTS FOR MECHANICAL EQUIPMENT AS COORDINATED WITH THE UNITS NAMEPLATE AND MANUFACTURERS INSTALLATION INSTRUCTIONS. FUSES SHALL BE CURRENT LIMITING TYPE.</p> <p>36. PROVIDE A GFCI TYPE DEVICE WITH WEATHER PROOF WHILE IN USE COVER WITHIN 25' OF ALL EXTERIOR HVAC/PLUMBING EQUIPMENT.</p> <p>37. WORK PERFORMED FROM THESE DRAWINGS SHALL ALSO COMPLY WITH THE PROJECT SPECIFICATIONS. IN THE EVENT THAT THERE IS A CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL TAKE PRECEDENT.</p> <p>38. CONTRACTOR SHALL CONFIRM THAT ALL LIGHTING FIXTURES SPECIFIED, AND THE CEILING TYPES, FIXTURE TRIMS, AND FRAMES ARE ALL COMPATIBLE PRIOR TO THE CONTRACTOR LIGHTING FIXTURE SUBMITTAL.</p> <p>39. BUILDING EXPANSION JOINTS ARE NOT INDICATED ON THE ELECTRICAL DRAWINGS (UON) AND SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS. INCLUDE FLEXIBLE EXPANSION WIRING METHODS AT EXPANSION JOINTS TO MEET THE DEFLECTION AND EXPANSION REQUIREMENTS OF THE BUILDING.</p> <p>40. PROVIDE ALL LABOR, EXIT SIGNS, AND MATERIAL COSTS FOR THE COMPLETE INSTALLATION OF 2 ADDITIONAL LED EDGE LIT EXIT SIGNS. THE INSTALLATION LOCATIONS ARE TO BE DETERMINED DURING THE FINAL PROJECT INSPECTION WITH THE A.H.J. TURN OVER ANY UNUSED EXIT SIGNS TO THE OWNER'S ATTIC STOCK FOR FUTURE USE.</p> <p>41. CONTRACTOR SHALL PREPARE RED LINED AS-BUILT DOCUMENTS REPRESENTING THE ACTUAL FIELD ROUTINGS AND INSTALLATION LOCATIONS FOR ALL ITEMS ON THIS PROJECT.</p> <p>42. ALL CONDUIT SHALL BE CONCEALED. IF SURFACE MOUNTED CONDUIT IS APPROVED, AND INSTALLED, IT SHALL BE PAINTED TO MATCH THE ARCHITECTURAL FINISHES IN THAT AREA.</p> <p>43. CONDUIT ROUTING (WHERE SHOWN) IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FILED CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES.</p> <p>44. DRAWINGS INDICATE JUNCTION BOXES WITH HOMERUNS ON THE PLANS, BUT THE CONTRACTOR SHALL PROVIDE ALL INTERMEDIATE RACEWAY WORK AND CONDUCTORS/CABLING BETWEEN THE DEVICES, FIXTURES, AND JUNCTION BOXES AS COORDINATED WITH ALL FIELD CONDITIONS AND TRADES.</p>



Revisions
ADDENDUM 3 11-9-2018

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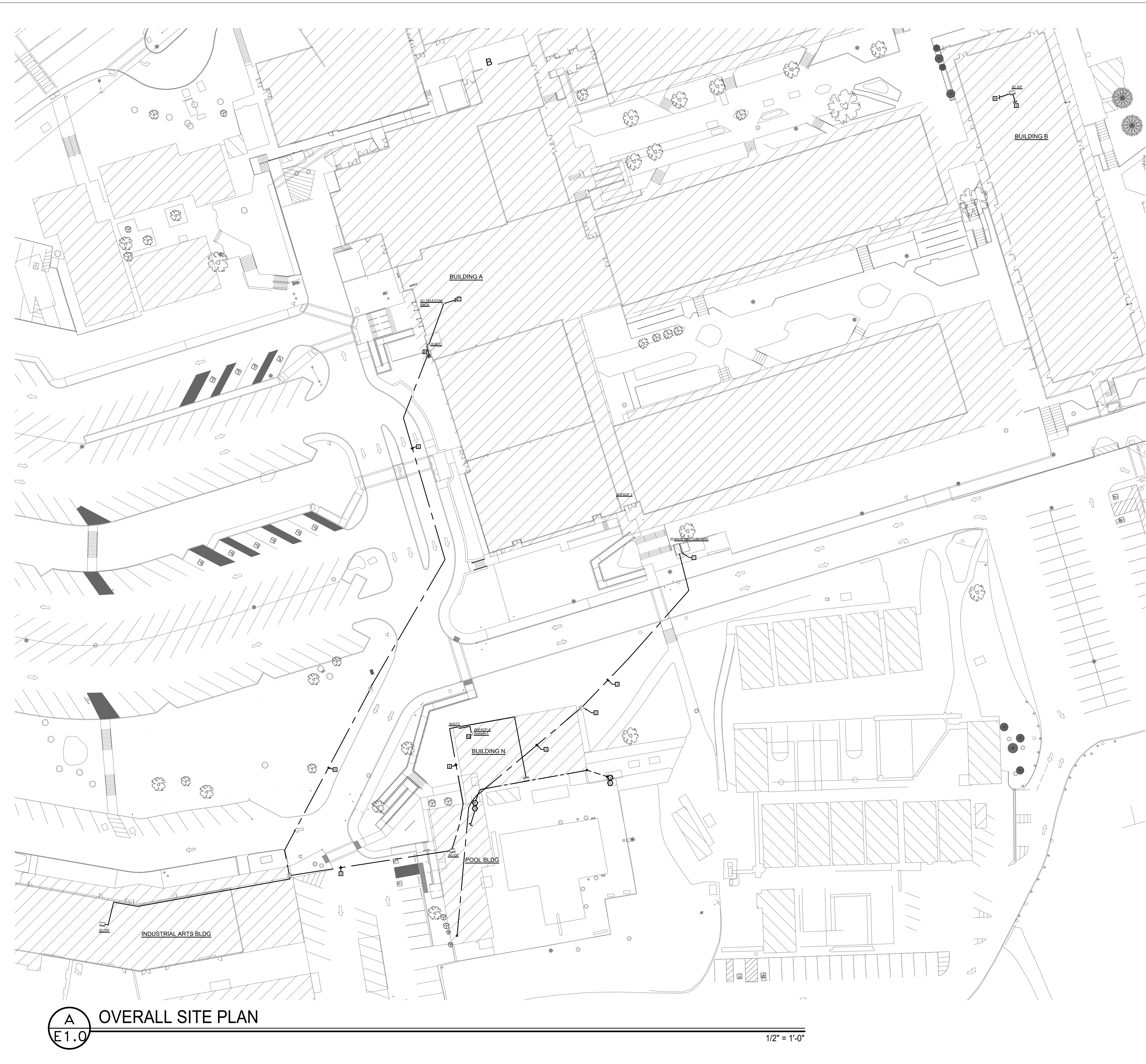
POOL BUILDING RENOVATION
for
N.J.U.H.S.D
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

9/27/2018
N.T.S.
17-429

SCHEDULES & PROJECT NOTES
E0.3

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

L
K
J
I
H
G
F
E
D
C
B
A



NUMBERED SHEET NOTES

1. EXISTING 225A/3P BREAKER TO BE REUSED.
2. EXISTING 4 #350 KCMIL IN 3.5" C TO BE REUSED.
3. EXISTING PULL BOX TO BE REUSED.
4. NEW 2" C WITH 2 FIBER RUNS.
5. EXISTING CONDUIT
6. RUN 2" C FROM PULLBOX TO EXTERIOR CONCRETE WALL. GO VERTICAL WITH SURFACE MOUNT 2" C AND CORE DRILL EXTERIOR CONCRETE WALL AT DEPTH OF 3' +/- FROM TOP OF WALL. CONNECT TO EXISTING WALL MOUNTED BOX.
7. TO (E) IDF ON BUILDING J R.M. 202.
8. FROM (E) TELE/COM RACK LOCATED IN BUILDING A- RECORDS OFFICE.
9. CONNECT TO LAST NODE ON EXISTING FIRE ALARM NETWORK.
10. INSTALL (N) FACP AND AMP-1. CONNECT TO IDF IN POOL BLDG. FROM IDF CONNECT TO FIRE

MEP Component Anchorage Note
 All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2016 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapter 13, 26 and 30.

1. All permanent equipment and components.
 2. Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water.
 3. Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be anchored with temporary attachments.
- The following mechanical and electrical components shall be positively attached to the structure, but the attachment need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.
- A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
 - B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note
 Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2016 CBC, Sections 1616A.1.24, 1616A.1.25 and 1616A.1.26.
 The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

- Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):
- MP MD PP E - Option 1: Detailed on the approved drawings with project specific notes and details.
- MP MD PP E - Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) #
- MP MD PP E - Option 3: Shall comply with the SMACNA Seismic Restraint Manual, OSHPD Edition (2009), including any addenda. Fasteners and other attachments not specifically identified in the SMACNA Seismic Restraint Manual, OSHPD Edition, are detailed on the approved drawings with project specific notes and details. The details shall account for the applicable Seismic Hazard Level _____ and Connection Level _____ for the project and conditions.



Revisions
 ADDENDUM 9/27/2018

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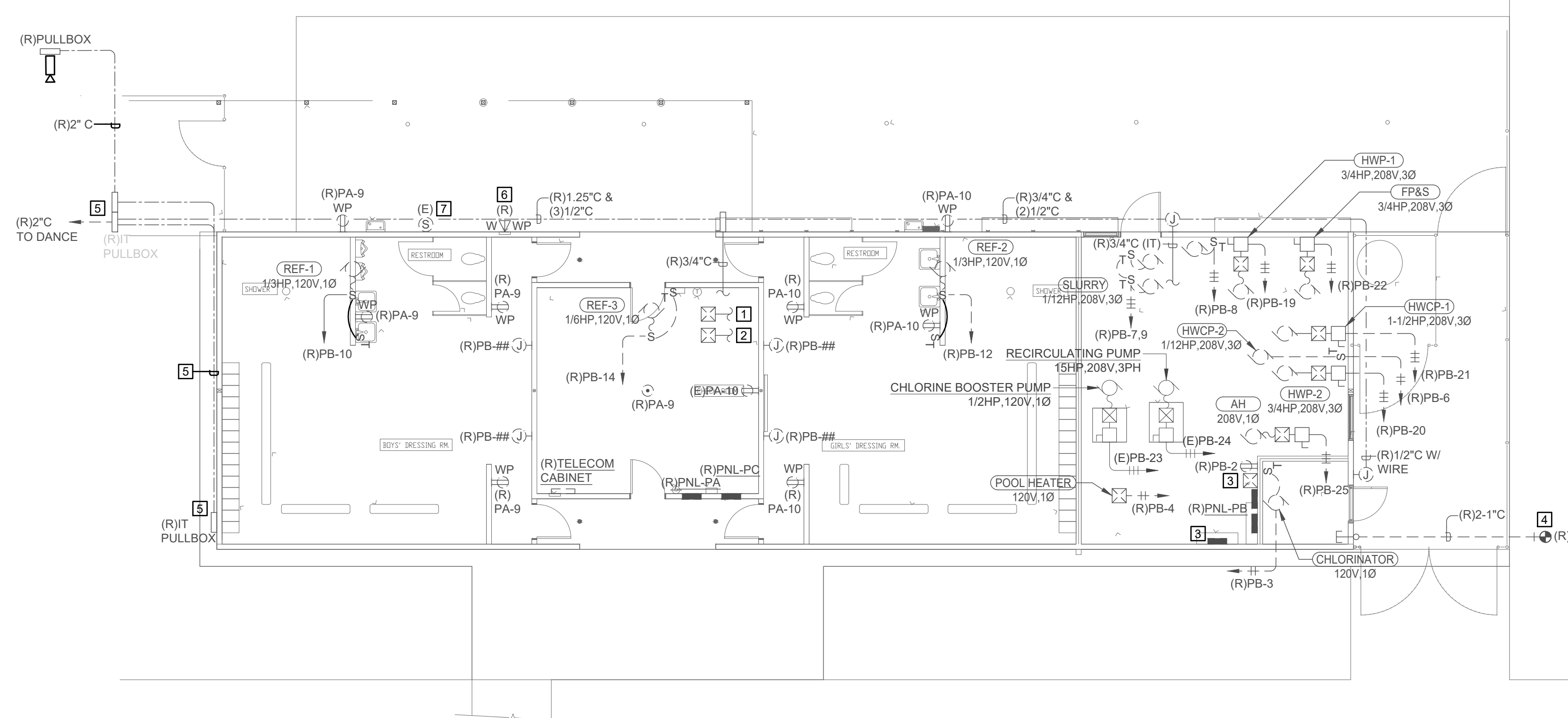
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POOL BUILDING RENOVATION
 for
 NJUHSD
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

date: 9/27/2018
 scale: 1/2" = 1'-0"
 job #: 17-429

OVERALL SITE PLAN
E1.0

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



A
E2.2 POWER PLAN - DEMO

1/8" = 1'-0"

GENERAL SHEET NOTES

A. REMOVE ALL EXISTING DEVICES AND CONDUIT BACK TO SOURCE.

B. WHEN A DEVICE IS REMOVED FROM EXISTING WALL WHICH WILL REMAIN, PATCH WALL TO MATCH EXISTING OR NEW FINISH.

NUMBERED SHEET NOTES

1. EXISTING BYPASS TIMER TO BE REMOVED.
2. EXISTING RADIANT HEAT CONTROL "ON/OFF" SWITCH TO BE REMOVED.
3. CHEMICAL CONTROL PANELS TO BE REMOVED.
4. REMOVE 50A SPECIALTY RECEPTACLE AND ALL ASSOCIATED CONDUIT (INCLUDING CONDUIT RISER).
5. REMOVE ALL EXISTING 2" C AND PULL BOXES ALONG WEST WALL OF POOL HOUSE. CAP CONDUIT AT GROUND LEVEL. PATCH AND PAINT DRILL HOLES TO MATCH EXTERIOR COLOR.
6. REMOVE EXISTING PHONE, INCLUDING SURFACE BOX, HANDSET, J-BOX, ETC.
7. REPLACE EXISTING SPEAKER SERVED BY SURFACE MOUNTED CONDUIT (MOUNTED TO THE BUILDING EXTERIOR WALL). REMOVE THIS CONDUIT AND WIRE AND ROUTE CONCEALED INSIDE BUILDING.



Revisions	
ADDENDUM 3	11-9-2018

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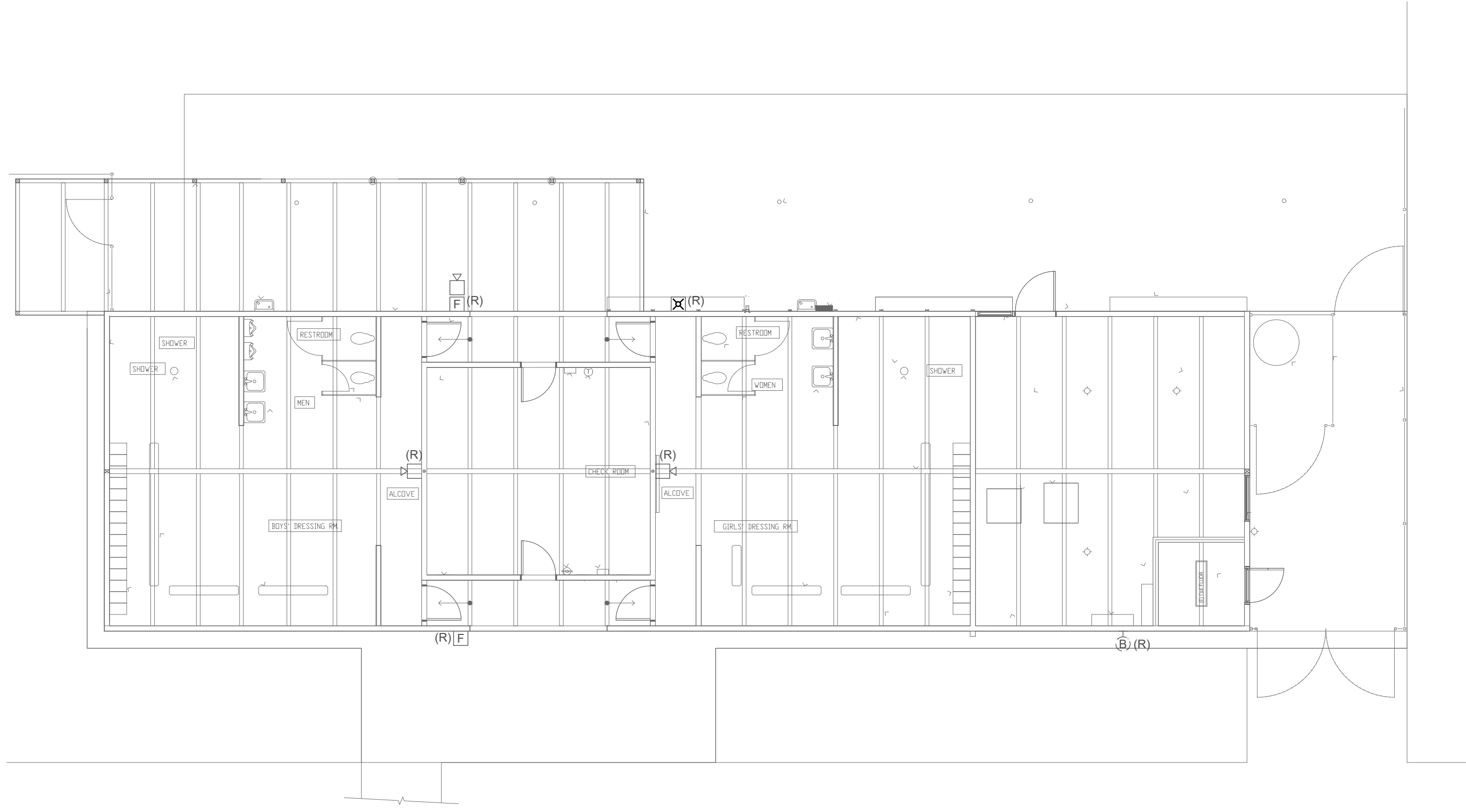
date: 9/27/2018
scale: 1/8" = 1'-0"
job #: 17-429

POWER & SIGNAL
PLAN - DEMO

E2.2

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

L
K
J
I
H
G
F
E
D
C
B
A



GENERAL SHEET NOTES

A. REMOVE ALL EXISTING DEVICES AND CONDUIT BACK TO SOURCE.

B. WHEN A DEVICE IS REMOVED FROM AN EXISTING WALL WHICH WILL REMAIN, PATCH WALL TO MATCH EXISTING OR NEW FINISH.

C. WHERE EXISTING FIRE ALARM DEVICES ARE TO BE REMOVED, THE CONTRACTOR SHALL ALSO REMOVE ALL CONDUCTORS SERVICING THE DEVICE.



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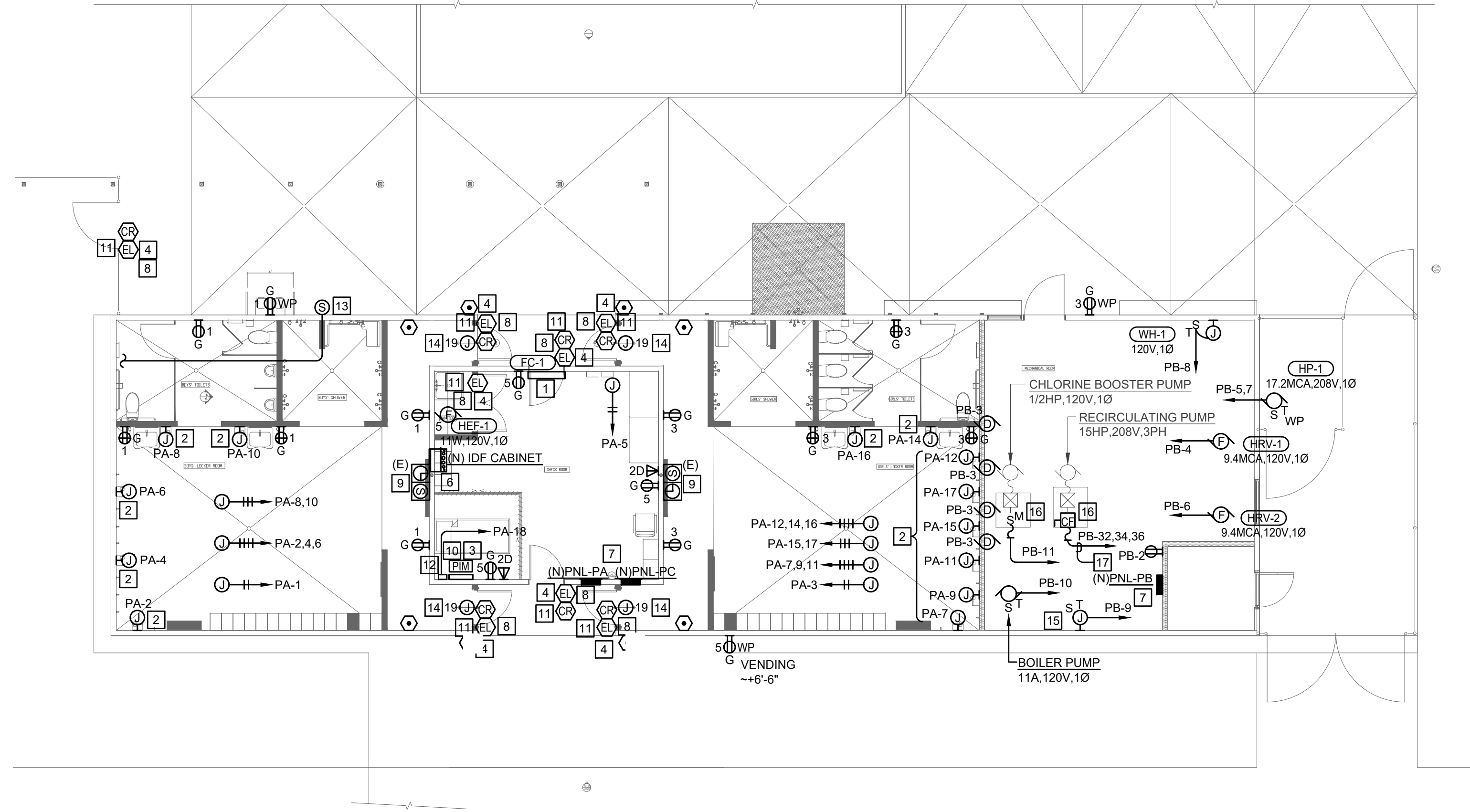
A
E2.3 FIRE ALARM PLAN - DEMO

1/8" = 1'-0"

date: 9/27/2018
scale: 1/8" = 1'-0"
job #: 17-429

FIRE ALARM PLAN - DEMO
E2.3

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



A
E4.1 POWER PLAN

1/8" = 1'-0"

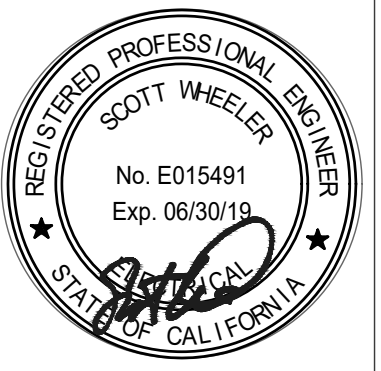


GENERAL SHEET NOTES

- WIRELESS DOOR LOCKS SHALL AS SPECIFIED ON THE DRAWINGS TO MATCH DISTRICT STANDARDS.
- ALLEGION/AVIGILON CERTIFIED REPRESENTATIVE SHALL PROGRAM THE CAMPUS SYSTEMS FOR THE ADDED DEVICES.
- ALLEGION/AVIGILON CERTIFIED REPRESENTATIVE SHALL BE WITHIN 50 MILE RADIUS OF THE CAMPUS.

NUMBERED SHEET NOTES

- POWER FOR FC-1 SHALL BE PROVIDED FROM HP-1 BY MECHANICAL CONTRACTOR.
- PROVIDE 120V POWER TO HAND DRYERS.
- WIRELESS CONNECTION TO ELECTRONIC DOOR LOCKS.
- 3/4" SURFACE MOUNTED CONDUIT. FOLLOW EXISTING OVERHEAD CONDUIT PATH TO CHECKROOM.
- SEE SITE PLAN E1.0 FOR EXACT LOCATION OF LOCK AND GATE.
- PROVIDE NEW WALL MOUNTED TELECOM CABINET.
- PROVIDE NEW PANEL TO REPLACE DEMOLISHED PANEL. RECONNECT EXISTING CIRCUITS THAT ARE TO REMAIN. PATCH AND REPAIR WALL AS REQUIRED.
- ALLEGION: SCHLAGE AD-400 NETWORKED WIRELESS ELECTRONIC LOCK.
- EXISTING SPEAKER/CLOCK. REPLACE WITH SAFLING CLOCK. SAM SERIES 1BS-12R-4. SPEAKER: LOWELL 810-T72. HOUSING: LOWELL PC712 STEEL BOX AND SCB-700 GRILL AND CONNECT TO EXISTING WIRING.
- ALLEGION: SCHLAGE PANEL INTERFACE MODULE, PIM400-1501.
- PROVIDE 24V POWER SUPPLY. SIZE TO POWER ALL SHOWN LOCKS VIA FLEX POWER PANEL FP075-B100C4PE1M. REFER TO BIE6.0 FOR ONE LINE DIAGRAM.
- FLEX POWER PANEL FP075-B100C4PE1M
- NEW EXTERIOR SPEAKER. LOWELL 810-T72, 8" SPEAKER. REFER TO BIE7.1 FOR SPEAKER MOUNTING DETAIL. PROVIDE NEW CONDUIT AND WIRE ROUTED CONCEALED INSIDE THE BUILDING.
- PROVIDE POWER TO AUTO DOOR. INSTALL STRIKE PLATES AND PROVIDE CONNECTION (CONDUIT AND WIRE) FROM STRIKE PLATE TO DOOR OPERATOR PER MANUFACTURER'S REQUIREMENTS.
- PROVIDE 12A, 120V, 1Ø CIRCUIT TO BOILER HEATER CONTROLLER.
- EXISTING EQUIPMENT. PROVIDE NEW DISCONNECT AND FEEDER AS SHOWN.
- PROVIDE 3 #4 CU & 1 #8 CU GND IN 1".



Revisions

ADDENDUM 3	11-9-2018
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NUJHSD
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

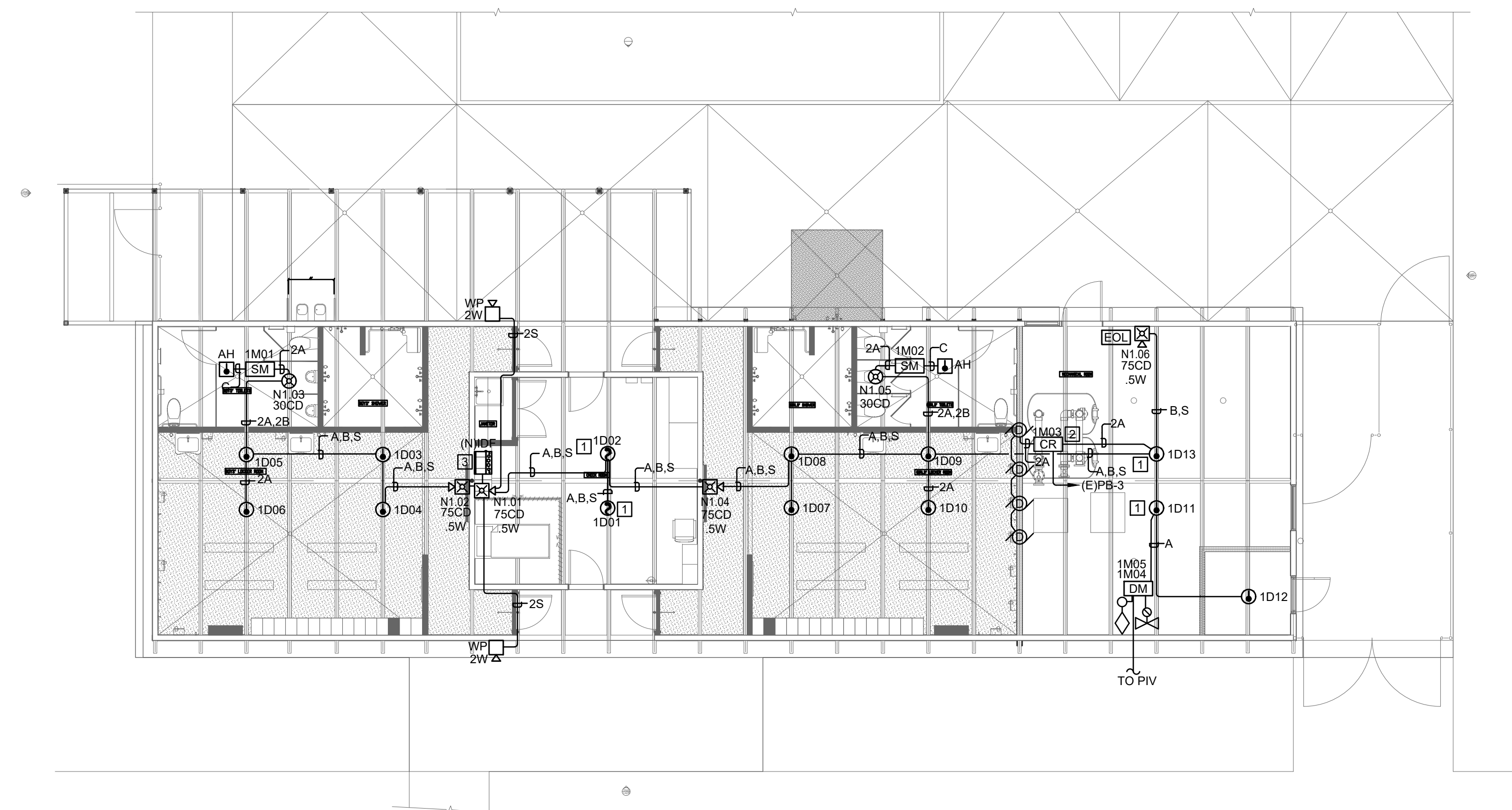
date: 9/27/2018
scale: 1/8" = 1'-0"
job #: 17-429

POWER PLAN

E4.1

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

L
K
J
I
H
G
F
E
D
C
B
A



A
E5.1 FIRE ALARM PLAN

1/8" = 1'-0"

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

GENERAL SHEET NOTES

- A. FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES, STANDARDS AND STATE REGULATIONS.
- B. FIRE ALARM CIRCUITS CIRCUIT ROUTING ARE SHOWN SCHEMATICALLY FOR CLARITY ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION.
- C. COORDINATE CEILING MOUNTED FIRE ALARM DEVICE LOCATIONS TO AVOID CONFLICT.
- D. DO NOT INSTALL FIRE ALARM DEVICES BACK TO BACK IN STUD WALLS.
- E. INSTALL FIRE ALARM CONDUCTORS IN CONDUIT OR METAL SURFACE RACEWAY WHEN IN EXPOSED SPACES. MINIMUM SIZE OF CONDUIT SHALL BE 0.75". UTILIZE WIREMOLD 700S SERIES SURFACE RACEWAY (IN LIEU OF CONDUIT) FOR AREA WHERE CONDUIT CANNOT BE INSTALLED CONCEALED. CABLE ABOVE ACCESSIBLE CEILING CAN BE INSTALLED FREE AIR WHEN USING APPLICABLE CABLE. SUPPORT ALL FREE AIR CABLE EVERY 48" WITH J-HOOKS.
- F. ALL SPEAKER/STROBES SHALL HAVE MINIMUM 0.75" CONDUIT PATHWAYS. USE OF EXISTING 0.5 CONDUIT PATHWAY IS NOT ACCEPTABLE.
- G. ENSURE THAT SPEAKERS/STROBES ARE MOUNTED IN 5" SQ. X 2 7/8" DEEP BOX, FOR SURFACE MOUNTED DEVICES. FLUSH MOUNTED DEVICES SHALL BE MOUNTED IN THE MANUFACTURES DESIGNATED BACK BOXES, COLOR TO MATCH DEVICE.
- H. REFER TO E6.0 FOR RISER DIAGRAMS.
- I. CONTRACTOR SHALL PROVIDE 120V DEDICATED RED LOCKING CIRCUIT BREAKER PER FIRE ALARM SYSTEM PANELS PER LOCATION.
- J. DETECTORS ON SLOPED CEILINGS SHALL BE LOCATED NO MORE THAN 36" FROM PEAK.

NUMBERED SHEET NOTES

- 1. INITIATION DEVICE TO BE PLACED ON BOTTOM OF BEAM.
- 2. AREA HEAT DETECTORS WILL INITIATE (CR) CONTROL RELAY MODULE TO ACTIVATE FIRE/SMOKE DAMPER(S).
- 3. CONNECT TO (N) FACP AND (N) AMP-1 IN BUILDING N.



Revisions
ADDENDUM 3 11-9-2018

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POOL BUILDING RENOVATION

for

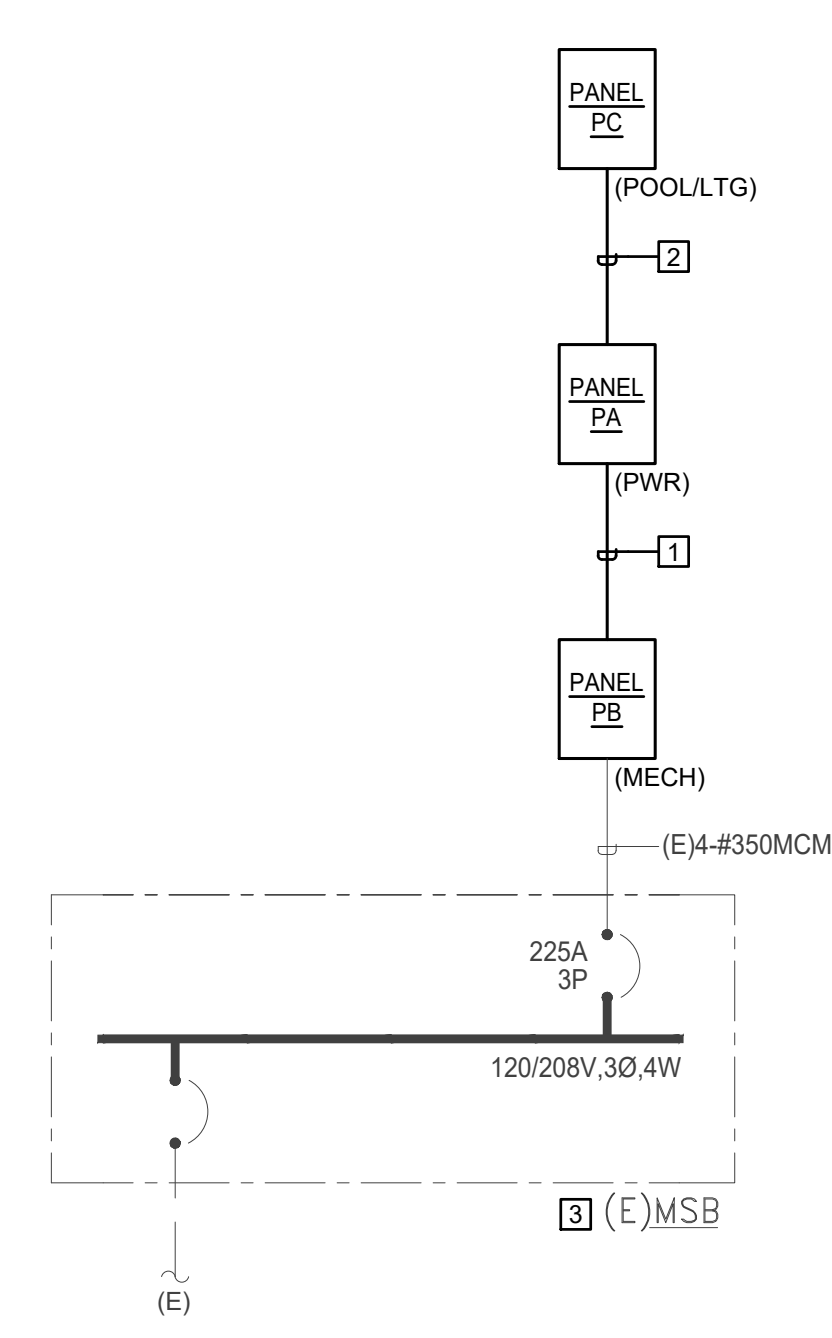
NJUHSD
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date: 9/27/2018
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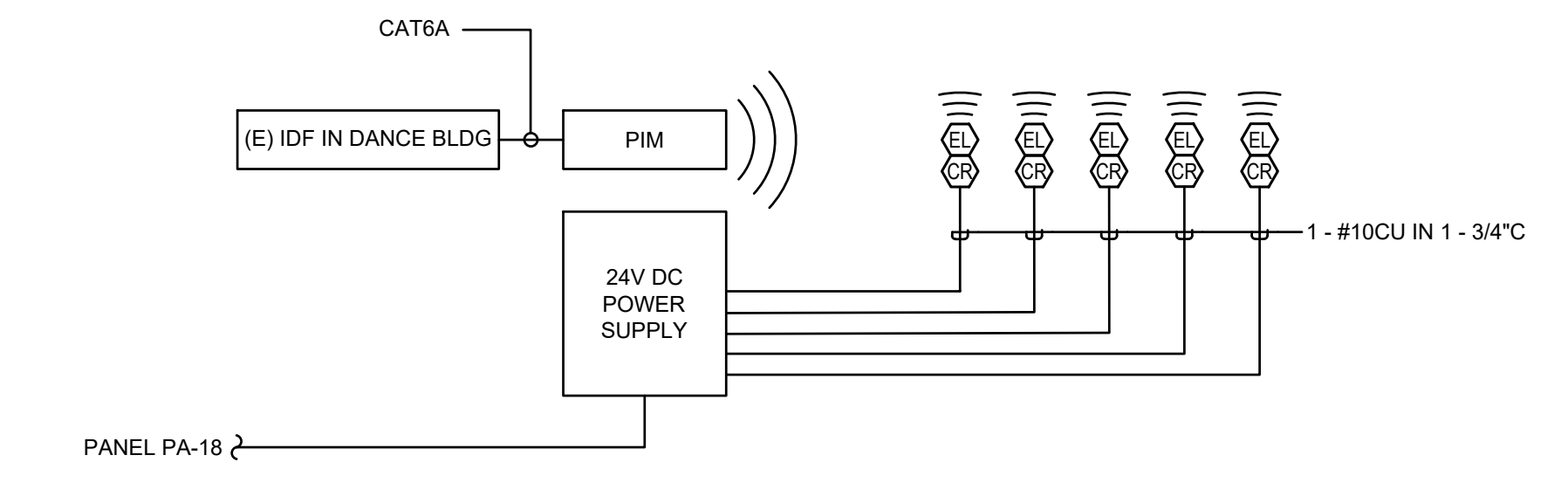
FIRE ALARM PLAN

E5.1

A



A POWER ONE-LINE DIAGRAM
E6.0 NOT TO SCALE



B SECURITY SINGLE-LINE DIAGRAM
E6.0 NOT TO SCALE

- NUMBERED SHEET NOTES**
- PROVIDE 4-#1 AND 1-#6 GND IN EXISTING 2".
 - PROVIDE 4-#1 AND 1-#8 GND IN EXISTING 2".
 - SEE OVERALL SITE PLAN ON SHEET E1.0 FOR LOCATION OF MSB OUTSIDE OF BLDG.D.

BP-A Booster Calculations
Location: BUILDING A ADMIN

Signaling Line Circuit Loading		DEVICE		SUBTOTAL	
Qty	Devices	Standby	Alarm	Standby	Alarm
1	SP58A	0.275000	0.440000	0.275000	0.440000
1	AUXILIARY CIRCUIT	0.055000	0.055000	0.055000	0.055000
Panel Load		0.330000	0.495000		

DEVICE	CD	DRAW (EA)	NAC1	NAC2	NAC3	NAC4	NAC5	NAC6	TOTAL
SPEAKER STROBE	15	0.071							
SPEAKER STROBE	30	0.086							
SPEAKER STROBE	75	0.136	4						0.544
SPEAKER STROBE	110	0.195							
STROBE	15	0.071							
STROBE	30	0.074	2						0.148
STROBE	75	0.153							
STROBE	110	0.195							
SPEAKER									
SOUNDER									
Notification Appliance Circuit Loading			0.692						0.692

CIRCUIT ID	TOTAL A	LENGTH FT.	AWG	%D	VD
NAC1	0.692	192	12	1.98%	0.40
NAC2	70	12			
NAC3	220	12			
NAC4					
NAC5					

Battery Calculation		Standby	Alarm
Totals Panel Current		0.330	1.187
Hours in Standby		24	
Standby AH		7.92	
Minutes in Alarm			15
Alarm AH			0.33
Spare/Future Capacity - 20%			1.64
Minimum Battery Capacity Required - AH			9.99

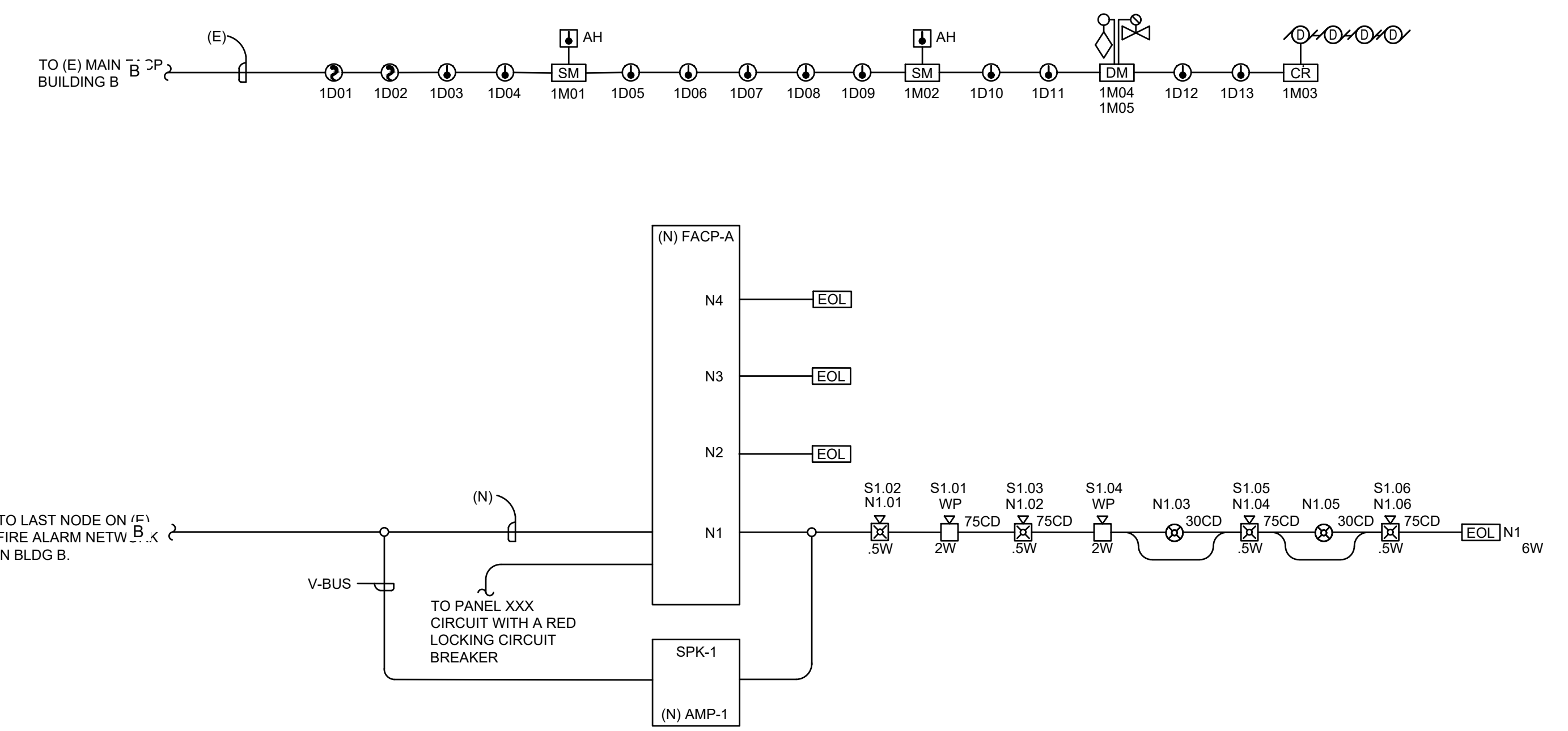
Provide next largest capacity battery

ALL LOADS ARE EXPRESSED IN AMPS

AMP1 Calculations

Device Type	QTY	Watts	Standby Current (amps)		Alarm Current (amps)	
			Current Draw	Total	Current Draw	Total
1. System						
Main Amplifier	1	50	X 0.0050	= 0.0050	0 X 0.2480	= 0.2480
			X 0.0050	= 0.0000	0 X 0.2480	= 0.0000
			X 0.0050	= 0.0000	0 X 0.2480	= 0.0000
Total Standby Load			0.0050		0.2480	
Total Alarm Load					0.3329	
Standby Load Current (Amps)			0.0050 Amps		X 24	= 0.120 AH
Alarm Load Current (Amps)			0.3329 Amps		X 15	= 0.083 AH
Total Current Load					0.20 AH	
					x 1.20	
Total Amperes Hours Required					0.24 AH	
Recommended Batteries:			3AH BATTERIES			

*Derating Factor required to compensate for the non-linear discharge characteristic of a battery.



D FIRE ALARM RISER
E6.0 NOT TO SCALE



Revisions

ADDENDUM	DATE
3	11-9-2018

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ONE-LINE AND RISER DIAGRAMS
E6.0